

Antenna Catalog

Cellular · Sub-1 GHz LPWAN & ISM · WiFi/WLAN · 2.4 GHz ISM · GNSS · MIMO · UHF/VHF · Other Antennas · Antenna Mounts



Catalog Organization

Antenna product listings are grouped by application, mounting location and mounting type as defined below. Within each grouping, antennas are listed by part number and series, summary applications and characteristics, and termination type for ease of product selection. An asterisk (*) may be used in a part number to denote multiple antenna termination options or cable length options.

Application

Cellular

MAP Electronics cellular antennas support cellular and cellular IoT/cellular LPWA applications including:

- 5G, 4G, 3G, 2G
- LTE, UMTS, GSM
- LTE-M (Cat-M1)
- NB-IoT
- CBRS

Sub-1 GHz LPWA & ISM

MAP Electronics sub-1 GHz antennas for LPWA and ISM applications offer single-band options in multiple styles, mounting, and terminations at 433 MHz, 490 MHz, 868 MHz and 915 MHz in support of applications including:

- LoRaWAN®
- Sigfox®
- Weightless-P™
- WiFi HaLow™

WiFi/WLAN

MAP Electronics Tri-band 2.4 GHz, 5 GHz and 6 GHz antenna solutions target wireless LAN (WiFi/WLAN) applications including:

- WiFi 7/ WiFi 6E
- WiFi 6
- WiFi 5
- WiFi 4
- U-NII 1-4, 5-8
- 802.11b/g/n/ac/ax/be

2.4 GHz ISM

MAP Electronics 2.4 GHz single-band antennas provide a broad range of styles, mounting, termination and levels of performance to accommodate ISM applications including:

- Bluetooth®
- ZigBee®
- Thread®
- IEEE 802.11b/g
- IEEE 802.15.4

GNSS

MAP Electronics offers global navigation satellite system (GNSS) antennas for systems including:

- GPS
- Galileo
- GLONASS
- BeiDou/COMPASS

Other

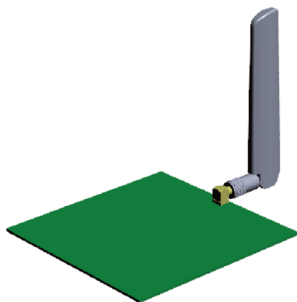
- NFC, UWB
- VHF/UHF
- 403 MHz
- 418 MHz

Mounting Location

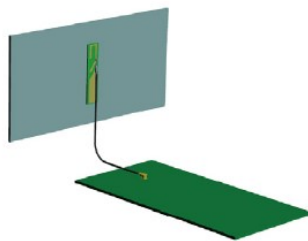
Internal/Embedded	Antenna mounts inside an enclosure
External	Antenna mounts on the outside of an enclosure
Remote	Antenna mounts away from an enclosure with cabled connection to the enclosure

Mounting Type

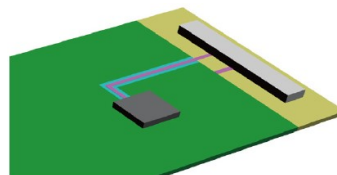
Connector	Connector (e.g. SMA) directly attaches antenna to mounting location
Adhesive	Antenna mounts to mounting location using adhesive
Surface Mount	Antenna mounts directly to printed circuit board with surface mount solder connection
Panel Mount	Antenna mounts to enclosure panel/surface and signal connects to radio via cable
Bracket	Antenna mounts to mounting location via bracket
Magnetic	Antenna mounts to mounting location via magnetic base
Through Hole	Antenna mounts to printed circuit board with a through hole solder connection



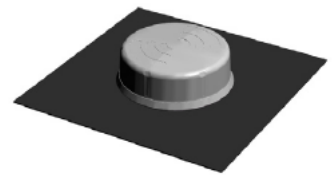
Connector Mount



Adhesive Mount



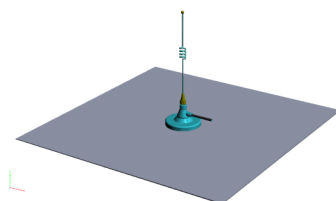
Surface Mount



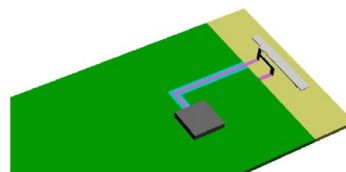
Panel Mount



Bracket Mount



Magnetic Mount



Through Hole Mount

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Cellular Antennas


MAP Electronics antennas offer a various range of types, mounting and connections, supporting cellular and cellular IoT applications including:

- 5G, 4G, 3G, 2G
- LTE, UMTS, GSM
- LTE-M (Cat-M1)
- NB-IoT
- CBRS

Data is provided by frequency band in MHz. LTE/5G NR band names may be cross-referenced to frequencies using the band table on pages [61](#), [62](#) and [63](#).


Internal

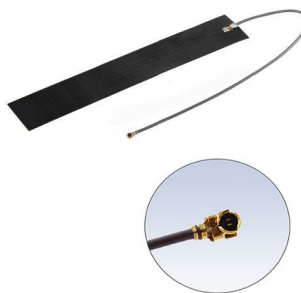
Surface Mount

MEZRD-C042XX3B	Overview	Electrical Data				Mechanical Data	
		Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Surface Mount
 <p>New</p>	5G Cellular Multi-band Monopole PCB Chip	617-960	2.8	1.4	47	Termination	Solder Pad
		1710-2690	3.0	4.8	60	Dimensions	42x7.5x3.2 mm
	Applications	3300-4200	2.4	3.1	52	Op. Temp.	-40°C to +85°C
		4400-5000	2.3	3.3	62	Ground Plane	140 x 50 mm
		5150-5850	2.8	4.8	58		
		5925-7125	2.5	3.7	55		
		Polarization	Linear				
		Wavelength	$\frac{1}{4}\lambda$				
		Electrical Type	Monopole				
		Radiation Pattern	Omni directional				
	Impedance (Ohms)	50					

Internal

Adhesive Mount


MEZRF-V092MP3B-*	Overview	Electrical Data				Mechanical Data	
		Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive Mount
<p>New</p> 	<p>5G/LTE Cellular Multiband Adhesive Dipole PCB Rigid Flat Patch with Coax Cable</p> <p>Applications 5G NR FR1, 4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT, CBRS</p>	617-960	3.0	3.1	35	Termination*	MHF1 Plug
		1710-2690	2.1	4.0	55		MHF4L Plug
		3300-4200	1.9	2.6	49	Dimensions	92x18x1.1 mm
		4400-5000	1.9	4.3	53		Op. Temp.
		5150-5850	1.8	4.0	50	Cable Type	∅1.13 mm
		5925-7125	2.9	5.1	38		Cable Length*
		Polarization	Linear		Electrical Type	Dipole	120 mm
		Wavelength	$\frac{1}{2}\lambda$			180 mm	
		Radiation Pattern	Omni directional		Impedance (Ohms)	50	
		Impedance (Ohms)	50				

MEZBF-V100MP3B-*	Overview	Electrical Data				Mechanical Data	
		Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive Mount
<p>New</p> 	<p>5G/LTE Cellular Multiband Adhesive Dipole FPC Flexible Flat Patch with Coax Cable</p> <p>Applications 5G NR FR1, 4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT, CBRS</p>	617-960	2.4	3.3	43	Termination*	MHF1 Plug
		1710-2690	2.0	4.1	53		MHF4L Plug
		3300-4200	1.7	3.1	51	Dimensions	100x18x0.25 mm
		4400-5000	2.0	4.1	57		Op. Temp.
		5150-5850	1.8	4.8	56	Cable Type	∅1.13 mm
		5925-7125	1.9	5.0	42		Cable Length*
		Polarization	Linear		Electrical Type	Dipole	120 mm
		Wavelength	$\frac{1}{2}\lambda$			180 mm	
		Radiation Pattern	Omni directional		Impedance (Ohms)	50	
		Impedance (Ohms)	50				

Cellular



External

Connector Mount

MEZWX-180ASA3B	Overview	Electrical Data	Mechanical Data																																								
	Outdoor 5G Cellular Multiband Tilt/Swivel Dipole Whip	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>617-960</td> <td>2.5</td> <td>1.5</td> <td>38</td> </tr> <tr> <td>1710-2690</td> <td>3.2</td> <td>2.8</td> <td>44</td> </tr> <tr> <td>3300-4200</td> <td>2.0</td> <td>2.8</td> <td>47</td> </tr> <tr> <td>4400-5000</td> <td>1.7</td> <td>2.4</td> <td>43</td> </tr> <tr> <td>5150-5850</td> <td>2.6</td> <td>2.6</td> <td>48</td> </tr> <tr> <td>5925-7125</td> <td>2.8</td> <td>3.1</td> <td>43</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	617-960	2.5	1.5	38	1710-2690	3.2	2.8	44	3300-4200	2.0	2.8	47	4400-5000	1.7	2.4	43	5150-5850	2.6	2.6	48	5925-7125	2.8	3.1	43	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Connector</th> </tr> </thead> <tbody> <tr> <td>Mount</td> <td>SMA Plug</td> </tr> <tr> <td>Termination*</td> <td>RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>203xø13 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> <tr> <td>IP Rating</td> <td>IP67</td> </tr> </tbody> </table>	Mounting Type	Connector	Mount	SMA Plug	Termination*	RP-SMA Plug	Dimensions	203xø13 mm	Op. Temp.	-30°C to +70°C	IP Rating	IP67
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External




Connector Mount

MEZGX-1023NF3W	Overview	Electrical Data				Mechanical Data	
	Outdoor 5G Cellular Multiband Dipole Fiberglass Baton/Stick	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
		617-960	2.2	2.4	47	Termination*	N-Type Jack
		1710-2690	2.7	2.7	49		N-Type Plug
		3300-4200	2.3	3.3	52	Dimensions	145xø25 mm
	Applications	4400-5000	2.8	4.3	43	Op. Temp.	-40°C to +85°C
	5G NR FR1, 4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT, CBRS	5150-5850	2.4	4.8	57	IP Rating	IP67
		5925-7125	2.5	3.8	52		
		Polarization			Linear		
		Wavelength			$\frac{1}{2}\lambda$		
		Electrical Type			Dipole		
	Radiation Pattern			Omni directional			
	Impedance (Ohms)			50			
MEZGX-1123NX3W	Overview	Electrical Data				Mechanical Data	
	Outdoor 5G Cellular Multiband Dipole Fiberglass Baton/Stick	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
		617-960	2.1	2.7	55	Termination	N-Type Plug
		1710-2690	2.5	3.4	65	Dimensions	152xø24 mm
		3300-4200	2.3	2.2	68	Op. Temp.	-40°C to +85°C
	Applications	4400-5000	3.0	3.6	56	IP Rating	IP67
	5G NR FR1, 4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT, CBRS	5150-5850	2.4	4.0	58		
		5925-7125	2.0	4.5	55		
		Polarization			Linear		
		Wavelength			$\frac{1}{2}\lambda$		
		Electrical Type			Dipole		
	Radiation Pattern			Omni directional			
	Impedance (Ohms)			50			

Cellular

External


Connector Mount


MEZH-150XNX3B	Overview	Electrical Data	Mechanical Data				
	5G Cellular Multi-band Straight Dipole Blade	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
		617-960	2.2	2.2	51		
	Applications 5G NR FR1, 4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT, CBRS	1710-2690	2.8	3.3	53	Termination	N-Type Plug
		3300-4200	2.4	2.5	55		
		4400-5000	3.1	4.3	59		
		5150-5925	2.7	4.7	53		
		5925-7125	3.9	4.2	46		
	Polarization				Linear		
	Wavelength				$\frac{1}{2}\lambda$		
	Electrical Type				Dipole		
Radiation Pattern				Omni directional			
Impedance (Ohms)				50			
New 	5G Cellular Multi-band Straight Dipole Blade	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
		617-960	2.2	2.2	51		
	Applications 5G NR FR1, 4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT, CBRS	1710-2690	2.8	3.3	53	Termination	N-Type Jack
		3300-4200	2.4	2.5	55		
		4400-5000	3.1	4.3	59		
		5150-5850	2.7	4.7	53		
		5925-7125	3.9	4.2	46		
	Polarization				Linear		
	Wavelength				$\frac{1}{2}\lambda$		
	Electrical Type				Dipole		
Radiation Pattern				Omni directional			
Impedance (Ohms)				50			
New 	5G Cellular Multi-band Straight Dipole Blade	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
		617-960	2.4	2.1	41		
	Applications 5G NR FR1, 4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT, CBRS	1710-2690	2.0	3.7	49	Termination*	SMA Plug RP-SMA Plug
		3300-4200	1.9	2.7	52		
		4400-5000	1.9	2.8	56		
		5150-5850	1.6	3.6	55		
		5925-7125	1.7	3.9	52		
	Polarization				Linear		
	Wavelength				$\frac{1}{2}\lambda$		
	Electrical Type				Dipole		
Radiation Pattern				Omni directional			
Impedance (Ohms)				50			


Cellular

External

Connector Mount

MEZWX-713ASA4B		Overview	Electrical Data				Mechanical Data	
	New	5G Cellular Multi-band Tilt/Swivel Dipole Blade	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
		Applications 5G NR FR1, 4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT, CBRS	617-960	2.1	2.5	43	Termination* SMA Plug RP-SMA Plug	Dimensions 188x27x13 mm Op. Temp. -30°C to +70°C IP Rating IP67
			1710-2690	1.8	4.0	53		
			3300-4200	1.9	3.2	63		
			4400-5000	2.5	2.0	49		
			5150-5850	1.6	3.8	57		
		5925-7125	1.7	4.1	56			
		Polarization	Linear					
		Wavelength	$\frac{1}{2}\lambda$					
		Electrical Type	Dipole					
Radiation Pattern	Omni directional							
Impedance (Ohms)	50							



MEZWX-715BSA5B		Overview	Electrical Data				Mechanical Data	
		450MHz + 5G Cellular Multiband Tilt/Swivel Dipole Blade	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
		Applications 5G NR FR1, 4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT, CBRS	450	1.9	0.9	41	Termination* SMA Plug RP-SMA Plug	Dimensions 183x28x13mm Op. Temp. -30°C to +70°C
			617-960	2.0	1.9	40		
			1710-2690	2.5	4.3	57		
			3300-4200	1.4	3.1	63		
			4400-5000	2.0	2.2	49		
		5150-5925	1.9	4.4	64			
		Polarization	Linear					
		Wavelength	$\frac{1}{2}\lambda$					
		Electrical Type	Dipole					
Radiation Pattern	Omni directional							
Impedance (Ohms)	50							

MEZWX-720XSA3B		Overview	Electrical Data				Mechanical Data	
		5G Cellular Multi-band Tilt/Swivel Dipole Blade	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
		Applications 5G NR FR1, 4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT, CBRS	698-960	2.2	1.0	56	Termination* SMA Plug RP-SMA Plug	Dimensions 222x28x14 mm Op. Temp. -20°C to +70°C
			1710-2690	2.3	2.6	64		
			3300-4200	2.5	2.4	62		
			4400-5000	2.3	2.6	61		
			5150-5850	2.0	2.7	61		
		5925-7125	2.5	2.5	66			
		Polarization	Linear					
		Wavelength	$\frac{1}{2}\lambda$					
		Electrical Type	Dipole					
Radiation Pattern	Omni directional							
Impedance (Ohms)	50							

Cellular


External


Connector Mount


MEZWX-711BSA3B	Overview	Electrical Data	Mechanical Data																																				
	5G Cellular Multi-band Tilt/Swivel Dipole Blade	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>617-960</td> <td>2.5</td> <td>2.7</td> <td>54</td> </tr> <tr> <td>1710-2690</td> <td>2.1</td> <td>3.8</td> <td>67</td> </tr> <tr> <td>3300-4200</td> <td>1.6</td> <td>3.0</td> <td>62</td> </tr> <tr> <td>4400-5000</td> <td>1.8</td> <td>3.2</td> <td>52</td> </tr> <tr> <td>5150-5850</td> <td>1.9</td> <td>2.8</td> <td>50</td> </tr> <tr> <td>5925-7125</td> <td>2.0</td> <td>3.5</td> <td>46</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	617-960	2.5	2.7	54	1710-2690	2.1	3.8	67	3300-4200	1.6	3.0	62	4400-5000	1.8	3.2	52	5150-5850	1.9	2.8	50	5925-7125	2.0	3.5	46	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Connector</th> </tr> </thead> <tbody> <tr> <td>Termination*</td> <td>SMA Plug RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>136x24x11 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector	Termination*	SMA Plug RP-SMA Plug	Dimensions	136x24x11 mm	Op. Temp.	-30°C to +70°C
	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																																			
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MEZWX-721XSA2B	Overview	Electrical Data	Mechanical Data																																				
	5G Cellular Multi-band Tilt/Swivel Dipole Blade	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>617-960</td> <td>2.0</td> <td>2.1</td> <td>51</td> </tr> <tr> <td>1710-2690</td> <td>2.9</td> <td>4.4</td> <td>65</td> </tr> <tr> <td>3300-4200</td> <td>2.7</td> <td>2.8</td> <td>68</td> </tr> <tr> <td>4400-5000</td> <td>2.0</td> <td>3.7</td> <td>54</td> </tr> <tr> <td>5150-5850</td> <td>2.6</td> <td>4.8</td> <td>52</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	617-960	2.0	2.1	51	1710-2690	2.9	4.4	65	3300-4200	2.7	2.8	68	4400-5000	2.0	3.7	54	5150-5850	2.6	4.8	52	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Connector</th> </tr> </thead> <tbody> <tr> <td>Termination*</td> <td>SMA Plug RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>150x22x11 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-20°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector	Termination*	SMA Plug RP-SMA Plug	Dimensions	150x22x11 mm	Op. Temp.	-20°C to +70°C				
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External

Connector Mount

MEZWX-6231SA4B	Overview	Electrical Data	Mechanical Data																																				
	450MHz + 5G Cellular Multiband Tilt/Swivel Dipole Blade	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>450</td> <td>1.6</td> <td>1.2</td> <td>45</td> </tr> <tr> <td>617-960</td> <td>2.6</td> <td>2.0</td> <td>51</td> </tr> <tr> <td>1710-2690</td> <td>2.5</td> <td>3.5</td> <td>63</td> </tr> <tr> <td>3300-5000</td> <td>2.0</td> <td>4.0</td> <td>60</td> </tr> <tr> <td>5150-5850</td> <td>1.8</td> <td>4.7</td> <td>65</td> </tr> <tr> <td>5925-7125</td> <td>1.8</td> <td>3.8</td> <td>60</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	450	1.6	1.2	45	617-960	2.6	2.0	51	1710-2690	2.5	3.5	63	3300-5000	2.0	4.0	60	5150-5850	1.8	4.7	65	5925-7125	1.8	3.8	60	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Connector</th> </tr> </thead> <tbody> <tr> <td>Termination*</td> <td>SMA Plug RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>205x25x13mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector	Termination*	SMA Plug RP-SMA Plug	Dimensions	205x25x13mm	Op. Temp.	-30°C to +70°C
	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																																			
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Linear	$\frac{1}{2}\lambda$	Dipole	Omni directional	50																																			

MEZWX-6141SA3B	Overview	Electrical Data	Mechanical Data																																				
	5G Cellular Multiband Tilt/Swivel Dipole Blade	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>617-960</td> <td>3.2</td> <td>1.6</td> <td>41</td> </tr> <tr> <td>1710-2690</td> <td>2.1</td> <td>4.8</td> <td>70</td> </tr> <tr> <td>3300-4200</td> <td>1.8</td> <td>2.0</td> <td>62</td> </tr> <tr> <td>4400-5000</td> <td>1.7</td> <td>3.4</td> <td>63</td> </tr> <tr> <td>5150-5850</td> <td>1.9</td> <td>3.8</td> <td>59</td> </tr> <tr> <td>5925-7125</td> <td>2.4</td> <td>3.5</td> <td>58</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	617-960	3.2	1.6	41	1710-2690	2.1	4.8	70	3300-4200	1.8	2.0	62	4400-5000	1.7	3.4	63	5150-5850	1.9	3.8	59	5925-7125	2.4	3.5	58	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Connector</th> </tr> </thead> <tbody> <tr> <td>Termination*</td> <td>SMA Plug RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>160x22x13 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector	Termination*	SMA Plug RP-SMA Plug	Dimensions	160x22x13 mm	Op. Temp.	-30°C to +70°C
	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																																			
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MEZWX-6221SA4B	Overview	Electrical Data	Mechanical Data																																				
	450MHz + 5G Cellular Multiband Tilt/Swivel Dipole Blade	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>450</td> <td>2.0</td> <td>1.8</td> <td>52</td> </tr> <tr> <td>617-960</td> <td>3.0</td> <td>2.0</td> <td>76</td> </tr> <tr> <td>1710-2690</td> <td>2.5</td> <td>3.0</td> <td>70</td> </tr> <tr> <td>3300-4200</td> <td>2.5</td> <td>3.5</td> <td>65</td> </tr> <tr> <td>4400-5000</td> <td>2.0</td> <td>3.5</td> <td>66</td> </tr> <tr> <td>5150-7125</td> <td>2.5</td> <td>3.6</td> <td>65</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	450	2.0	1.8	52	617-960	3.0	2.0	76	1710-2690	2.5	3.0	70	3300-4200	2.5	3.5	65	4400-5000	2.0	3.5	66	5150-7125	2.5	3.6	65	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Connector</th> </tr> </thead> <tbody> <tr> <td>Termination*</td> <td>SMA Plug RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>237x39x13 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector	Termination*	SMA Plug RP-SMA Plug	Dimensions	237x39x13 mm	Op. Temp.	-30°C to +70°C
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Applications 5G NR FR1, 4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT, CBRS	<table border="1"> <thead> <tr> <th>Polarization</th> <th>Wavelength</th> <th>Electrical Type</th> <th>Radiation Pattern</th> <th>Impedance (Ohms)</th> </tr> </thead> <tbody> <tr> <td>Linear</td> <td>$\frac{1}{2}\lambda$</td> <td>Dipole</td> <td>Omni directional</td> <td>50</td> </tr> </tbody> </table>	Polarization	Wavelength	Electrical Type	Radiation Pattern	Impedance (Ohms)	Linear	$\frac{1}{2}\lambda$	Dipole	Omni directional	50																												
Polarization	Wavelength	Electrical Type	Radiation Pattern	Impedance (Ohms)																																			
Linear	$\frac{1}{2}\lambda$	Dipole	Omni directional	50																																			

Cellular

External

Panel Mount

MEZHX-3802NF3B



Overview

5G Cellular Multi-band Dipole Dome/Saltshaker

Applications

5G NR FR1, 4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT

Electrical Data

Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)
617-960	3.6	4.1	78
1710-2690	2.8	7.1	76
3300-4200	2.3	6.8	70
4400-5000	2.5	6.2	76
5150-5850	2.0	10.0	80
5925-7125	2.8	8.9	75
Polarization	Linear		
Wavelength	$\frac{1}{2}\lambda$		
Electrical Type	Dipole		
Radiation Pattern	Omni directional		
Impedance (Ohms)	50		

Mechanical Data

Mounting Type	Panel Mount
Termination	N-Type Jack
Dimensions	77.7x \varnothing 38 mm
Op. Temp.	-40°C to +85°C
IP Rating	IP67
Ground Plane	350 x 350 mm

MEZHX-3602NF6B



Overview

5G Cellular Multi-band Dipole Dome/Saltshaker

Applications

5G NR FR1, 4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT

Electrical Data



Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)
698-960	3.6	2.4	63
1710-2690	2.2	3.8	65
3300-3800	1.8	4.5	51
4200-5000	3.3	3.4	55
5150-5850	3.2	5.1	52
Polarization	Linear		
Wavelength	$\frac{1}{2}\lambda$		
Electrical Type	Dipole		
Radiation Pattern	Omni directional		
Impedance (Ohms)	50		

Mechanical Data

Mounting Type	Panel Mount
Termination	N-Type Jack
Dimensions	71x \varnothing 40.2 mm
Op. Temp.	-30°C to +70°C
IP Rating	IP65
Ground Plane	350 x 350 mm

External


Panel Mount


MEZHF-3802SA3B-*	Overview	Electrical Data				Mechanical Data	
	5G Cellular Multi-band Dipole Dome /Saltshaker Flying Lead	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
		617-960	3.3	2.8	57	Termination	SMA Plug
		1710-2690	2.3	3.2	55	Dimensions	77.7xø38 mm
		3300-4200	3.3	3.2	35	Op. Temp.	-40°C to +85°C
	Applications	4400-5000	2.4	3.6	47	Cable Type	RG58
	5G NR FR1, 4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT	5150-5850	2.7	5.7	44	Cable Length*	1000 mm
		5925-7125	2.8	3.4	32		2000 mm
		Polarization			Linear	IP Rating	IP67
		Wavelength			$\frac{1}{2}\lambda$		
		Electrical Type			Dipole		
	Radiation Pattern			Omni directional			
	Impedance (Ohms)			50			
MEYHF-3602SA3B-*	Overview	Electrical Data				Mechanical Data	
	4G LTE Cellular Multiband Dipole Dome/Saltshaker Flying Lead	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
		698-960	3.6	2.4	63	Termination	SMA Plug
		1710-2690	2.2	3.8	65	Dimensions	71xø40.2 mm
		3300-3800	1.8	4.5	51	Op. Temp.	-30°C to +70°C
	Applications	4200-5000	3.3	3.4	55	Cable Type	RG174
	4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT	5150-5850	3.2	5.1	52	Cable Length*	1000 mm
							2000 mm
		Polarization			Linear		
		Wavelength			$\frac{1}{2}\lambda$		
		Electrical Type			Dipole		
	Radiation Pattern			Omni directional			
	Impedance (Ohms)			50			

Cellular

Remote / Rugged



Panel Mount


MEYHF-HA02SA1W-*	Overview	Electrical Data	Mechanical Data												
	4G LTE Cellular Multiband Rugged Dipole Dome Flying Lead	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>698-960</td> <td>3.5</td> <td>2.6</td> <td>65</td> </tr> <tr> <td>1710-2690</td> <td>2.8</td> <td>3.1</td> <td>72</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	698-960	3.5	2.6	65	1710-2690	2.8	3.1	72	Mounting Type: Panel Mount Termination: SMA Plug Dimensions: 35xø169 mm Op. Temp.: -40°C to +85°C Cable Type: RG58 Cable Length*: 1000mm 2000mm
	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)											
698-960	3.5	2.6	65												
1710-2690	2.8	3.1	72												
Applications 4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT	Polarization: Linear Wavelength: $\frac{1}{2}\lambda$ Electrical Type: Dipole Radiation Pattern: Omni directional Impedance (Ohms): 50	IP Rating: IP67													


MEZHF-HA04TC2G-*	Overview	Electrical Data	Mechanical Data																				
New 	5G/LTE Cellular Multiband Rugged Dipole Dome burial to roadways	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>617-960</td> <td>4.0</td> <td>1.9</td> <td>38</td> </tr> <tr> <td>1710-2690</td> <td>3.5</td> <td>4.3</td> <td>41</td> </tr> <tr> <td>3300-4200</td> <td>3.7</td> <td>2.1</td> <td>32</td> </tr> <tr> <td>4400-5000</td> <td>4.9</td> <td>2.0</td> <td>30</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	617-960	4.0	1.9	38	1710-2690	3.5	4.3	41	3300-4200	3.7	2.1	32	4400-5000	4.9	2.0	30	Mounting Type: Burial Mount Termination: TNC Plug Dimensions: 55xø100 mm Op. Temp.: -40°C to +85°C Cable Type: RG58 Cable Length*: 1000mm 2000mm 3000mm
	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																			
617-960	4.0	1.9	38																				
1710-2690	3.5	4.3	41																				
3300-4200	3.7	2.1	32																				
4400-5000	4.9	2.0	30																				
Applications 5G, 4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT	Polarization: Linear Wavelength: $\frac{1}{2}\lambda$ Electrical Type: Dipole Radiation Pattern: Omni directional Impedance (Ohms): 50	IP Rating: IP67																					

Remote

Adhesive Mount

MEZBF-603XSA3B-*	Overview	Electrical Data				Mechanical Data	
		Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive Mount
	5G Cellular Multiband Straight Dipole Adhesive Bar/Blade, Flying Lead	617-960	1.9	3.2	46	Termination	SMA Plug
		1710-2690	1.6	2.5	39	Dimensions	110x20x6 mm
	Applications 5G NR FR1, 4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT, CBRS	3300-4200	1.6	0.3	28	Op. Temp.	-40°C to +85°C
		4400-5000	1.6	-1.5	17	Cable Type	RG174
		5150-5925	1.6	0.5	19	Cable Length*	1000 mm
		5925-7125	1.8	0.2	13		2000 mm
		Polarization		Linear			
		Wavelength		$\frac{1}{2}\lambda$			
		Electrical Type		Dipole			
		Radiation Pattern		Omni directional			
		Impedance (Ohms)		50			



MECAF-601XSAXB-*	Overview	Electrical Data				Mechanical Data	
		Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive Mount
	Cellular Multiband Straight Dipole Adhesive Bar/ Blade, Flying Lead	824-960	2.0	2.0	53	Termination	SMA Plug
		1710-2170	2.0	2.5	61	Dimensions	146x20x13 mm
	Applications LTE-M (Cat-M1), NB-IoT, UMTS, GSM, LPWA					Op. Temp.	-30°C to +70°C
						Cable Type	RG174
						Cable Length*	1000 mm
							2000 mm
		Polarization		Linear			
		Wavelength		$\frac{1}{2}\lambda$			
		Electrical Type		Dipole			
		Radiation Pattern		Omni directional			
		Impedance (Ohms)		50			

MECAF-350XSA1B-*	Overview	Electrical Data				Mechanical Data	
		Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive Mount
	Cellular Multiband Dipole Adhesive Puck, Flying Lead	880-960	2.7	1.6	34	Termination	SMA Plug
		1710-1880	2.6	1.0	28	Dimensions	9.8x50 mm
	Applications LTE-M (Cat-M1), NB-IoT, UMTS, GSM, LPWA					Op. Temp.	-30°C to +70°C
						Cable Type	RG174
						Cable Length*	1000 mm
							2000 mm
		Polarization		Linear			
		Wavelength		$\frac{1}{2}\lambda$			
		Electrical Type		Dipole			
		Radiation Pattern		Omni directional			
		Impedance (Ohms)		50			

Cellular

Remote

Magnetic Mount

MEYAF-129XSA1B-*	Overview	Electrical Data				Mechanical Data	
	4G Cellular Multi-band Straight Monopole Magnetic Mount Whip, Flying Lead	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Magnetic Mount
		698-960	2.5	2.0	55	Termination	SMA Plug
		1710-2690	2.0	3.0	63	Dimensions	91xø31 mm
						Op. Temp.	-30°C to +70°C
						Cable Type	RG174
						Cable Length*	1000 mm 2000 mm
	Applications 4G LTE, UMTS, GSM, LTE-M (Cat-M1), NB-IoT, LPWA	Polarization		Linear			
		Wavelength		¼-λ			
		Electrical Type		Monopole			
		Radiation Pattern		Omni directional			
		Impedance (Ohms)		50			
MECAF-126XSAXB-*	Overview	Electrical Data				Mechanical Data	
	Cellular Multiband Straight Monopole Magnetic Mount Whip, Flying Lead	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Magnetic Mount
		824-896	2.5	2.0	56	Termination	SMA Plug
		1710-2170	2.0	3.0	65	Dimensions	120xø27 mm
						Op. Temp.	-30°C to +70°C
						Cable Type	RG174
						Cable Length*	1000 mm 2000 mm
	Applications UMTS, GSM, LTE-M (Cat-M1), NB-IoT, LPWA	Polarization		Linear			
		Wavelength		¼-λ			
		Electrical Type		Monopole			
		Radiation Pattern		Omni directional			
		Impedance (Ohms)		50			

Sub-1 GHz LPWA and ISM Antennas

MAP Electronics sub-1 GHz antennas for LPWA (low power wide area) and ISM applications offer single-band options in multiple styles, mounting, and terminations at 433MHz, 490MHz, 868MHz and 915MHz in support of applications including:

- LoRaWAN®
- Sigfox®
- Weightless-P™
- WiFi HaLow™

Internal

Adhesive Mount

MEGRF-V090MP3B-*

New



Overview

868 & 915 MHz LPWA & ISM Adhesive Dipole PCB Rigid Flat Patch with Coax Cable

Applications

LoRaWAN, Sigfox, Weightless-P, WiFi HaLow

Electrical Data

Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)
868	1.5	1.4	42
915	1.7	2.5	53

Polarization	Linear
Wavelength	$\frac{1}{2}\lambda$
Electrical Type	Dipole
Radiation Pattern	Omni directional
Impedance (Ohms)	50

Mechanical Data

Mounting Type	Adhesive Mount
Termination*	U.FL/MHF Plug MHF4L Plug
Dimensions	90x18x1.1 mm
Op. Temp.	-40°C to +85°C
Cable Type	∅1.13 mm
Cable Length*	60 mm 120 mm 180 mm

MEGRF-H100MP3B-*

New



Overview

868 & 915 MHz LPWA & ISM Adhesive Dipole PCB Rigid Flat Patch with Orthogonal Cable

Applications

LoRaWAN, Sigfox, Weightless-P, WiFi HaLow

Electrical Data

Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)
868	1.6	2.0	62
915	1.6	3.6	72

Polarization	Linear
Wavelength	$\frac{1}{2}\lambda$
Electrical Type	Dipole
Radiation Pattern	Omni directional
Impedance (Ohms)	50


Mechanical Data

Mounting Type	Adhesive Mount
Termination*	U.FL/MHF Plug MHF4L Plug
Dimensions	100x20x1.1 mm
Op. Temp.	-40°C to +85°C
Cable Type	∅1.13 mm
Cable Length*	60 mm 120 mm 180 mm

Sub-1 GHz LPWA and ISM

External


Connector Mount


		Overview	Electrical Data				Mechanical Data	
MEGHX-2120SA2W 	New	915 MHz LPWA & ISM Monopole Straight Whip	Frequency (MHz) 915	VSWR (Max) 2.5	Peak Gain (dBi) 2.0	Efficiency (%) 62	Mounting Type Connector Mount	Termination* SMA Plug RP-SMA Plug
		Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	Linear $\frac{1}{4}$ - λ Monopole Omni directional 50	Dimensions Op. Temp. Ground Plane	22x \varnothing 9 mm -30°C to +70°C 120 x 120 mm		
MEGHX-2120SA1W 	New	868 MHz LPWA & ISM Monopole Straight Whip	Frequency (MHz) 868	VSWR (Max) 2.2	Peak Gain (dBi) 1.4	Efficiency (%) 53	Mounting Type Connector Mount	Termination* SMA Plug RP-SMA Plug
		Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	Linear $\frac{1}{4}$ - λ Monopole Omni directional 50	Dimensions Op. Temp. Ground Plane	22x \varnothing 9 mm -30°C to +70°C 120 x 120 mm		
MEGHX-328XSA3B 		868 & 915 MHz ISM & LPWA Straight Monopole Whip	Frequency (MHz) 868 915	VSWR (Max) 1.6 1.7	Peak Gain (dBi) 2.7 2.7	Efficiency (%) 78 79	Mounting Type Connector Mount	Termination* SMA Plug RP-SMA Plug
		Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	Linear $\frac{1}{4}$ - λ Monopole Omni directional 50	Dimensions Op. Temp. Ground Plane	46x \varnothing 11 mm -30°C to +70°C 120 x 120 mm		


Sub-1 GHz LPWA and ISM

External

Connector Mount

MEGHX-463XSA3B		Overview	Electrical Data				Mechanical Data	
	868 & 915 MHz	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount	
	ISM & LPWA	868	1.3	1.0	60	Termination*	SMA Plug	
	Straight Monopole Whip	915	1.7	2.4	72		RP-SMA Plug	
Applications						Dimensions	176xø10 mm	
LoRaWAN, Sigfox, Weightless-P, WiFi HaLow						Op. Temp.	-30°C to +70°C	
		Polarization		Linear				
		Wavelength		¼-λ				
		Electrical Type		Monopole				
		Radiation Pattern		Omni directional				
		Impedance (Ohms)		50				





MEGHX-150XNX3B		Overview	Electrical Data				Mechanical Data	
	868 & 915 MHz	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount	
	ISM & LPWA	868	2.5	1.9	56	Termination*	N-Type Plug	
	Straight Dipole Blade	915	2.0	2.5	61		N-Type Jack	
Applications						Dimensions	178xø21 mm	
LoRaWAN, Sigfox, Weightless-P, WiFi HaLow						Op. Temp.	-40°C to +85°C	
		Polarization		Linear		IP Rating	IP67	
		Wavelength		½-λ				
		Electrical Type		Dipole				
		Radiation Pattern		Omni directional				
		Impedance (Ohms)		50				

MEGHX-325ASA3W		Overview	Electrical Data				Mechanical Data	
	868 & 915 MHz	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount	
	ISM & LPWA	868	1.8	2.4	65	Termination*	SMA Plug	
	Straight Monopole Whip	915	1.7	4.2	71		RP-SMA Plug	
Applications						Dimensions	105xø13.5 mm	
LoRaWAN, Sigfox, Weightless-P, WiFi HaLow						Op. Temp.	-30°C to +70°C	
		Polarization		Linear		Ground Plane	120 x 120 mm	
		Wavelength		¼-λ				
		Electrical Type		Monopole				
		Radiation Pattern		Omni directional				
		Impedance (Ohms)		50				

Sub-1 GHz LPWA and ISM

External

Connector Mount

MEGWX-180ASA2B	Overview	Electrical Data	Mechanical Data																								
	915 MHz LPWA & ISM Tilt/Swivel Dipole Whip	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>915</td> <td>1.6</td> <td>2.8</td> <td>74</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	915	1.6	2.8	74	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Connector</th> </tr> </thead> <tbody> <tr> <td>Termination*</td> <td>SMA Plug RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>203xø13 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> <tr> <td>IP Rating</td> <td>IP67</td> </tr> </tbody> </table>	Mounting Type	Connector	Termination*	SMA Plug RP-SMA Plug	Dimensions	203xø13 mm	Op. Temp.	-30°C to +70°C	IP Rating	IP67						
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	868 MHz LPWA & ISM Tilt/Swivel Dipole Whip	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>868</td> <td>1.5</td> <td>2.0</td> <td>73</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	868	1.5	2.0	73	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Connector</th> </tr> </thead> <tbody> <tr> <td>Termination*</td> <td>SMA Plug RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>203xø13 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> <tr> <td>IP Rating</td> <td>IP67</td> </tr> </tbody> </table>	Mounting Type	Connector	Termination*	SMA Plug RP-SMA Plug	Dimensions	203xø13 mm	Op. Temp.	-30°C to +70°C	IP Rating	IP67						
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Radiation Pattern	Omni directional																										
Impedance (Ohms)	50																										

Sub-1 GHz LPWA and ISM

External



Connector Mount

MEGWX-715BSA3B	Overview	Electrical Data	Mechanical Data
	868 & 915MHz ISM & LPWA Tilt/ Swivel Dipole Blade Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency (MHz) VSWR (Max) Peak Gain (dBi) Efficiency (%)	Mounting Type Connector Mount Termination SMA Plug Dimensions 183x28x13 mm Op. Temp. -30°C to +70°C
		868 2.2 2.0 61 915 2.0 2.5 65	
		Polarization Linear Wavelength ½-λ Electrical Type Dipole Radiation Pattern Omni directional Impedance (Ohms) 50	
MEGWX-711BSA3B	Overview	Electrical Data	Mechanical Data
	868 & 915 MHz ISM & LPWA Tilt/ Swivel Dipole Blade Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency (MHz) VSWR (Max) Peak Gain (dBi) Efficiency (%)	Mounting Type Connector Mount Termination SMA Plug Dimensions 136x24x11 mm Op. Temp. -30°C to +70°C
		868 1.5 2.0 61 915 1.3 2.1 60	
		Polarization Linear Wavelength ½-λ Electrical Type Dipole Radiation Pattern Omni directional Impedance (Ohms) 50	
MEGWX-6231SA3B	Overview	Electrical Data	Mechanical Data
	868 & 915 MHz ISM & LPWA Tilt/ Swivel Dipole Blade Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency (MHz) VSWR (Max) Peak Gain (dBi) Efficiency (%)	Mounting Type Connector Mount Termination SMA Plug Dimensions 205x25x13 mm Op. Temp. -30°C to +70°C
		868 2.0 2.1 61 915 2.0 2.5 65	
		Polarization Linear Wavelength ½-λ Electrical Type Dipole Radiation Pattern Omni directional Impedance (Ohms) 50	
MEGWX-6141SA3B	Overview	Electrical Data	Mechanical Data
	868 & 915 MHz ISM & LPWA Tilt/ Swivel Dipole Blade Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency (MHz) VSWR (Max) Peak Gain (dBi) Efficiency (%)	Mounting Type Connector Mount Termination SMA Plug Dimensions 160x22x13 mm Op. Temp. -30°C to +70°C
		868 1.5 0.8 41 915 1.9 1.7 40	
		Polarization Linear Wavelength ½-λ Electrical Type Dipole Radiation Pattern Omni directional Impedance (Ohms) 50	

Sub-1 GHz LPWA and ISM

External

Connector Mount



MEGMX-221ASA3B	Overview	Electrical Data				Mechanical Data	
	868 & 915 MHz ISM & LPWA Right Angle Monopole Whip	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector	Mount
	Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	868	2.4	1.1	55	Termination*	SMA Plug
		915	2.0	1.8	66	RP-SMA Plug	47xø8 mm
						Dimensions	-30°C to +70°C
						Op. Temp.	120 x 120mm
						Ground Plane	
		Polarization	Linear				
		Wavelength	$\frac{1}{4}\lambda$				
		Electrical Type	Monopole				
		Radiation Pattern	Omni directional				
		Impedance (Ohms)	50				
MEUHX-325ASAXB	Overview	Electrical Data				Mechanical Data	
	433 MHz ISM & 450 MHz Mono- pole Straight Whip	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector	Mount
	Applications LoRaWAN, Weightless-P, Remote Control	433-450	2.0	2.1	46	Termination	SMA Plug
						Dimensions	105xø13.5 mm
						Op. Temp.	-30°C to +70°C
						Ground Plane	120 x 120mm
		Polarization	Linear				
		Wavelength	$\frac{1}{4}\lambda$				
		Electrical Type	Monopole				
		Radiation Pattern	Omni directional				
		Impedance (Ohms)	50				

New

Sub-1 GHz LPWA and ISM

External




Connector Mount

MEGGX-1023NF3W	Overview	Electrical Data	Mechanical Data																						
	868 & 915MHz ISM & LPWA Outdoor Fiberglass Dipole Baton/Stick Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>868</td> <td>1.6</td> <td>0.3</td> <td>48</td> </tr> <tr> <td>915</td> <td>1.3</td> <td>1.5</td> <td>57</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	868	1.6	0.3	48	915	1.3	1.5	57	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination*</td> <td>N-Type Jack N-Type Plug</td> </tr> <tr> <td>Dimensions</td> <td>145xø25 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-40°C to +85°C</td> </tr> <tr> <td>IP Rating</td> <td>IP67</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination*	N-Type Jack N-Type Plug	Dimensions	145xø25 mm	Op. Temp.	-40°C to +85°C	IP Rating	IP67
		Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																				
868	1.6	0.3	48																						
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MEGGX-1123NX3W	Overview	Electrical Data	Mechanical Data																						
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Sub-1 GHz LPWA and ISM

External



Connector Mount

MEGHX-1017NX2W	Overview	Electrical Data	Mechanical Data																		
	915 MHz ISM & LPWA Outdoor Fiberglass Dipole Baton/Stick	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>915</td> <td>1.3</td> <td>4.5</td> <td>76</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	915	1.3	4.5	76	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Connector Mount</th> </tr> </thead> <tbody> <tr> <td>Termination</td> <td>N-Type Plug</td> </tr> <tr> <td>Dimensions</td> <td>528xø20 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-40°C to +85°C</td> </tr> <tr> <td>IP Rating</td> <td>IP67</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	N-Type Plug	Dimensions	528xø20 mm	Op. Temp.	-40°C to +85°C	IP Rating	IP67
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MEGGX-103XNF2W	Overview	Electrical Data	Mechanical Data																		
	915 MHz ISM & LPWA Outdoor Fiberglass Dipole Baton/Stick	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>915</td> <td>1.5</td> <td>7.0</td> <td>83</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	915	1.5	7.0	83	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Connector Mount</th> </tr> </thead> <tbody> <tr> <td>Termination</td> <td>N-Type Jack</td> </tr> <tr> <td>Dimensions</td> <td>621xø22 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-40°C to +85°C</td> </tr> <tr> <td>IP Rating</td> <td>IP65</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	N-Type Jack	Dimensions	621xø22 mm	Op. Temp.	-40°C to +85°C	IP Rating	IP65
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Sub-1 GHz LPWA and ISM

External



Panel Mount

MEGHX-3802NF3B	Overview	Electrical Data	Mechanical Data																						
	868 & 915 MHz ISM & LPWA Di- pole Dome/ Saltshaker Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>868</td> <td>3.0</td> <td>2.3</td> <td>61</td> </tr> <tr> <td>915</td> <td>3.0</td> <td>2.5</td> <td>63</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	868	3.0	2.3	61	915	3.0	2.5	63	<table border="1"> <thead> <tr> <th>Mounting Type</th> <td>Panel Mount</td> </tr> <tr> <th>Termination</th> <td>N-Type Jack</td> </tr> <tr> <th>Dimensions</th> <td>77.7xø38 mm</td> </tr> <tr> <th>Op. Temp.</th> <td>-40°C to +85°C</td> </tr> <tr> <th>IP Rating</th> <td>IP67</td> </tr> </thead> </table>	Mounting Type	Panel Mount	Termination	N-Type Jack	Dimensions	77.7xø38 mm	Op. Temp.	-40°C to +85°C	IP Rating	IP67
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MEGHX-3602NF3B	Overview	Electrical Data	Mechanical Data																						
	868 & 915 MHz ISM & LPWA Di- pole Dome/ Saltshaker Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>868</td> <td>3.0</td> <td>1.9</td> <td>58</td> </tr> <tr> <td>915</td> <td>3.0</td> <td>2.2</td> <td>60</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	868	3.0	1.9	58	915	3.0	2.2	60	<table border="1"> <thead> <tr> <th>Mounting Type</th> <td>Panel Mount</td> </tr> <tr> <th>Termination</th> <td>N-Type Jack</td> </tr> <tr> <th>Dimensions</th> <td>71xø40.2 mm</td> </tr> <tr> <th>Op. Temp.</th> <td>-30°C to +70°C</td> </tr> <tr> <th>IP Rating</th> <td>IP65</td> </tr> </thead> </table>	Mounting Type	Panel Mount	Termination	N-Type Jack	Dimensions	71xø40.2 mm	Op. Temp.	-30°C to +70°C	IP Rating	IP65
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Sub-1 GHz LPWA and ISM

External


Panel Mount


MEGHF-3802SA3B-*	Overview	Electrical Data				Mechanical Data	
	868MHz 915MHz ISM & LPWA Di- pole Dome/ Saltshaker, Flying Lead	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
	Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	868	3.0	2.3	61	Termination	SMA Plug
	Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	915	3.0	2.5	63	Dimensions	78xø40 mm
	868MHz 915MHz ISM & LPWA Di- pole Dome/ Saltshaker, Flying Lead	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
	Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	868	3.0	1.9	58	Termination	SMA Plug
	Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	915	3.0	2.2	60	Dimensions	71xø40.2 mm
						Op. Temp.	-40°C to +85°C
						Cable Type	RG174
						Cable Length*	1000 mm
							2000 mm
						IP Rating	IP65


Sub-1 GHz LPWA and ISM

Remote

Adhesive Mount

MEGAF-603XSA3B-*	Overview	Electrical Data	Mechanical Data																								
	868 & 915 MHz ISM & LPWA Straight Dipole Adhesive Bar/ Blade, Flying Lead	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>868</td> <td>2.0</td> <td>2.0</td> <td>47</td> </tr> <tr> <td>915</td> <td>1.8</td> <td>2.3</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	868	2.0	2.0	47	915	1.8	2.3	50	<table border="1"> <thead> <tr> <th>Mounting Type</th> <td>Adhesive Mount</td> </tr> <tr> <th>Termination</th> <td>SMA Plug</td> </tr> <tr> <th>Dimensions</th> <td>110x20x6 mm</td> </tr> <tr> <th>Op. Temp.</th> <td>-30°C to +70°C</td> </tr> <tr> <th>Cable Type</th> <td>RG174</td> </tr> <tr> <th>Cable Length*</th> <td>1000 mm 2000 mm</td> </tr> </thead> </table>	Mounting Type	Adhesive Mount	Termination	SMA Plug	Dimensions	110x20x6 mm	Op. Temp.	-30°C to +70°C	Cable Type	RG174	Cable Length*	1000 mm 2000 mm
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Impedance (Ohms)	50																										


MEGAF-601XSA3B-*	Overview	Electrical Data	Mechanical Data																								
	868 & 915 MHz ISM & LPWA Straight Dipole Adhesive Bar/ Blade, Flying Lead	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>868</td> <td>2.0</td> <td>1.1</td> <td>50</td> </tr> <tr> <td>915</td> <td>1.8</td> <td>1.5</td> <td>52</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	868	2.0	1.1	50	915	1.8	1.5	52	<table border="1"> <thead> <tr> <th>Mounting Type</th> <td>Adhesive Mount</td> </tr> <tr> <th>Termination</th> <td>SMA Plug</td> </tr> <tr> <th>Dimensions</th> <td>146x20x13 mm</td> </tr> <tr> <th>Op. Temp.</th> <td>-30°C to +70°C</td> </tr> <tr> <th>Cable Type</th> <td>RG174</td> </tr> <tr> <th>Cable Length*</th> <td>1000 mm 2000 mm</td> </tr> </thead> </table>	Mounting Type	Adhesive Mount	Termination	SMA Plug	Dimensions	146x20x13 mm	Op. Temp.	-30°C to +70°C	Cable Type	RG174	Cable Length*	1000 mm 2000 mm
	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																							
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Radiation Pattern	Omni directional																										
Impedance (Ohms)	50																										


MEGAF-350XSA3B-*	Overview	Electrical Data	Mechanical Data																								
	868 & 915 MHz ISM & LPWA Di- pole Adhesive Puck, Flying Lead	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>868</td> <td>2.6</td> <td>1.5</td> <td>34</td> </tr> <tr> <td>915</td> <td>2.5</td> <td>1.8</td> <td>36</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	868	2.6	1.5	34	915	2.5	1.8	36	<table border="1"> <thead> <tr> <th>Mounting Type</th> <td>Adhesive Mount</td> </tr> <tr> <th>Termination</th> <td>SMA Plug</td> </tr> <tr> <th>Dimensions</th> <td>9.8xø50 mm</td> </tr> <tr> <th>Op. Temp.</th> <td>-30°C to +70°C</td> </tr> <tr> <th>Cable Type</th> <td>RG174</td> </tr> <tr> <th>Cable Length*</th> <td>1000 mm 2000 mm</td> </tr> </thead> </table>	Mounting Type	Adhesive Mount	Termination	SMA Plug	Dimensions	9.8xø50 mm	Op. Temp.	-30°C to +70°C	Cable Type	RG174	Cable Length*	1000 mm 2000 mm
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Radiation Pattern	Omni directional																										
Impedance (Ohms)	50																										

Sub-1 GHz LPWA and ISM

Remote

Magnetic Mount





MEGAF-129XSA3B-*	Overview	Electrical Data				Mechanical Data	
	868 & 915 MHz	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Magnetic Mount
	ISM & LPWA	868	2.5	1.8	55	Termination	SMA Plug
	Straight Monopole Magnetic Mount Whip, Flying Lead	915	2.2	2.0	58	Dimensions	91xø31 mm
Applications						Op. Temp.	-30°C to +70°C
LoRaWAN, Sigfox, Weightless-P, WiFi HaLow						Cable Type	RG174
						Cable Length*	1000 mm 2000 mm
		Polarization		Linear			
		Wavelength		¼-λ			
		Electrical Type		Monopole			
		Radiation Pattern		Omni directional			
		Impedance (Ohms)		50			

MEGAF-126XSA3B-*	Overview	Electrical Data				Mechanical Data	
	868 & 915 MHz	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Magnetic Mount
	ISM & LPWA	868	2.4	1.9	57	Termination	SMA Plug
	Straight Monopole Magnetic Mount Whip, Flying Lead	915	2.0	2.2	59	Dimensions	120xø27 mm
Applications						Op. Temp.	-30°C to +70°C
LoRaWAN, Sigfox, Weightless-P, WiFi HaLow						Cable Type	RG174
						Cable Length*	1000 mm 2000 mm
		Polarization		Linear			
		Wavelength		¼-λ			
		Electrical Type		Monopole			
		Radiation Pattern		Omni directional			
		Impedance (Ohms)		50			

Sub-1 GHz LPWA and ISM

Remote

Bracket Mount

MEGPX-026XNF2W	Overview	Electrical Data	Mechanical Data																		
	915 MHz Outdoor Directional Patch Flat Panel	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>915</td> <td>1.1</td> <td>8.1</td> <td>79</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	915	1.1	8.1	79	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Bracket Mount</th> </tr> </thead> <tbody> <tr> <td>Termination</td> <td>N-Type Jack</td> </tr> <tr> <td>Dimensions</td> <td>260x260x44 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-40°C to +85°C</td> </tr> <tr> <td>IP Rating</td> <td>IP65</td> </tr> </tbody> </table>	Mounting Type	Bracket Mount	Termination	N-Type Jack	Dimensions	260x260x44 mm	Op. Temp.	-40°C to +85°C	IP Rating	IP65
	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																	
915	1.1	8.1	79																		
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Op. Temp.	-40°C to +85°C																				
IP Rating	IP65																				
Applications RFID, LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Polarization RHCP Wavelength $\frac{1}{2}\lambda$ Electrical Type Radiating Patch Radiation Pattern Directional Impedance (Ohms) 50																				
MEGPX-036XNF2W	Overview	Electrical Data	Mechanical Data																		
	915 MHz Outdoor Directional Patch Flat Panel	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>915</td> <td>1.2</td> <td>8.9</td> <td>83</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	915	1.2	8.9	83	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Bracket Mount</th> </tr> </thead> <tbody> <tr> <td>Termination</td> <td>N-Type Jack</td> </tr> <tr> <td>Dimensions</td> <td>360x220x42 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-40°C to +85°C</td> </tr> <tr> <td>IP Rating</td> <td>IP65</td> </tr> </tbody> </table>	Mounting Type	Bracket Mount	Termination	N-Type Jack	Dimensions	360x220x42 mm	Op. Temp.	-40°C to +85°C	IP Rating	IP65
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Applications RFID, LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Polarization RHCP Wavelength $\frac{1}{2}\lambda$ Electrical Type Radiating Patch Radiation Pattern Directional Impedance (Ohms) 50																				
MEGPX-052XNF2W	Overview	Electrical Data	Mechanical Data																		
	915 MHz Outdoor Directional Patch Flat Panel	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>915</td> <td>1.2</td> <td>9.5</td> <td>84</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	915	1.2	9.5	84	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Bracket Mount</th> </tr> </thead> <tbody> <tr> <td>Termination</td> <td>N-Type Jack</td> </tr> <tr> <td>Dimensions</td> <td>520x300x52 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> <tr> <td>IP Rating</td> <td>IP65</td> </tr> </tbody> </table>	Mounting Type	Bracket Mount	Termination	N-Type Jack	Dimensions	520x300x52 mm	Op. Temp.	-30°C to +70°C	IP Rating	IP65
	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																	
915	1.2	9.5	84																		
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Applications RFID, LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Polarization RHCP Wavelength $\frac{1}{2}\lambda$ Electrical Type Radiating Patch Radiation Pattern Directional Impedance (Ohms) 50																				
MEGPX-052ANF2W	Overview	Electrical Data	Mechanical Data																		
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Applications RFID LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Polarization RHCP Wavelength $\frac{1}{2}\lambda$ Electrical Type Radiating Patch Radiation Pattern Directional Impedance (Ohms) 50																				

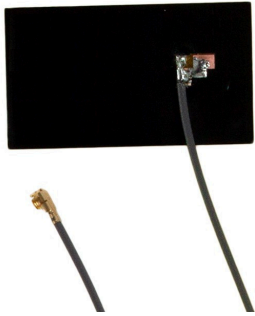
WiFi / WLAN


MAP Electronics multi-band 2.4 GHz, 5 GHz and 6 GHz antenna solutions target wireless LAN (WiFi/ WLAN) applications including:


- WiFi 7 (Tri-band: 2.4 GHz + 5 GHz + 6 GHz)
- WiFi 6E (Tri-band: 2.4 GHz + 5 GHz + 6 GHz)
- WiFi 6 (Dual-band: 2.4 GHz + 5 GHz)
- WiFi 5 (5 GHz)
- WiFi 4 (2.4 GHz)
- U-NII 1-8
- 802.11b/g/n/ac/ax/be

Internal

Adhesive Mount






METBF-H035MP3B-*		Overview	Electrical Data				Mechanical Data	
	WLAN/WiFi Trib-and Adhesive FPC Dipole Flexible Flat Patch Orthogonal Cable	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive Mount	
	Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	2400-2500	2.2	2.4	60	Termination*	U.FL-type Plug /MHF1 Plug /MHF4 Plug	
		5150-5850	2.1	4.4	71	Dimensions	35x20x0.2 mm	
		5925-7125	2.7	7.1	62	Op. Temp.	-40°C to +85°C	
		Polarization		Linear		Cable Type	∅1.13mm	
		Wavelength		½-λ		Cable Length*	60 mm	
		Electrical Type		Dipole			120 mm	
		Radiation Pattern		Omni directional			180 mm	
		Impedance (Ohms)		50				

METBF-V035MP3B-*		Overview	Electrical Data				Mechanical Data	
	WLAN/WiFi Trib-and Adhesive FPC Dipole Flexible Flat Patch Coax Cable	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive Mount	
	Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	2400-2500	1.8	2.3	64	Termination*	U.FL-type Plug /MHF1 Plug /MHF4 Plug	
		5150-5850	1.7	4.6	71	Dimensions	35x20x0.2 mm	
		5925-7125	2.5	7.3	65	Op. Temp.	-40°C to +85°C	
		Polarization		Linear		Cable Type	∅1.13mm	
		Wavelength		½-λ		Cable Length*	60 mm	
		Electrical Type		Dipole			120 mm	
		Radiation Pattern		Omni directional			180 mm	
		Impedance (Ohms)		50				

METBF-H030MP3B-*		Overview	Electrical Data				Mechanical Data	
	WLAN/WiFi Trib-and Adhesive FPC Dipole Flexible Flat Patch Orthogonal Cable	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive Mount	
	Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	2400-2500	2.0	2.3	63	Termination*	U.FL-type Plug /MHF1 Plug /MHF4 Plug	
		5150-5850	1.5	4.6	70	Dimensions	30x10x0.2 mm	
		5925-7125	1.5	6.3	64	Op. Temp.	-40°C to +85°C	
		Polarization		Linear		Cable Type	∅1.13mm	
		Wavelength		½-λ		Cable Length*	60 mm	
		Electrical Type		Dipole			120 mm	
		Radiation Pattern		Omni directional			180 mm	
		Impedance (Ohms)		50				

Internal

Adhesive Mount

METRF-H030MP3B-*		Overview	Electrical Data				Mechanical Data	
	WLAN/WiFi Trib- and Adhesive PCB	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive Mount	
	Dipole Rigid Flat	2400-2500	1.7	2.5	60	Termination*	U.FL-type Plug /MHF1 Plug	
	Patch Orthogonal	5150-5850	1.3	4.7	64		MHF4L Plug	
	Cable	5925-7125	2.3	4.8	50	Dimensions	30x10x1.1 mm	
Applications		Polarization		Linear		Op. Temp.	-40°C to +85°C	
WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4		Wavelength		$\frac{1}{2}\lambda$		Cable Type	\varnothing 1.13mm	
		Electrical Type		Dipole		Cable Length*	60 mm	
		Radiation Pattern		Omni directional			120 mm	
		Impedance (Ohms)		50			180 mm	
		Overview		Electrical Data		Mechanical Data		
	WLAN/WiFi Trib- and Adhesive PCB	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive Mount	
	Dipole Rigid Flat	2400-2500	2.2	2.4	60	Termination*	U.FL-type Plug /MHF1 Plug	
	Patch Orthogonal	5150-5850	2.1	4.4	71		MHF4L Plug	
	Cable	5925-7125	2.7	7.1	62	Dimensions	35x20x1.1 mm	
Applications		Polarization		Linear		Op. Temp.	-40°C to +85°C	
WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4		Wavelength		$\frac{1}{2}\lambda$		Cable Type	\varnothing 1.13mm	
		Electrical Type		Dipole		Cable Length*	60 mm	
		Radiation Pattern		Omni directional			120 mm	
		Impedance (Ohms)		50			180 mm	
		Overview		Electrical Data		Mechanical Data		
	WLAN/WiFi Trib- and Adhesive PCB	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive Mount	
	Dipole Rigid Flat	2400-2500	1.8	2.3	64	Termination*	U.FL-type Plug /MHF1 Plug	
	Patch Coax Cable	5150-5850	1.7	4.6	71		MHF4L Plug	
		5925-7125	2.5	7.3	65	Dimensions	35x20x1.1 mm	
Applications		Polarization		Linear		Op. Temp.	-40°C to +85°C	
WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4		Wavelength		$\frac{1}{2}\lambda$		Cable Type	\varnothing 1.13mm	
		Electrical Type		Dipole		Cable Length*	60 mm	
		Radiation Pattern		Omni directional			120 mm	
		Impedance (Ohms)		50			180 mm	

WiFi / WLAN


External

Connector Mount

Model	Overview	Electrical Data	Mechanical Data																																				
METWX-100ARS3B 	Outdoor WLAN/ WiFi Triband Tilt/ Swivel Dipole Whip Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.6</td> <td>2.6</td> <td>71</td> </tr> <tr> <td>5150-5850</td> <td>1.5</td> <td>4.3</td> <td>57</td> </tr> <tr> <td>5925-7125</td> <td>3.0</td> <td>4.6</td> <td>58</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.6	2.6	71	5150-5850	1.5	4.3	57	5925-7125	3.0	4.6	58	Polarization	Linear	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>124xø13 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> <tr> <td>IP Rating</td> <td>IP67</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	RP-SMA Plug	Dimensions	124xø13 mm	Op. Temp.	-30°C to +70°C	IP Rating	IP67
Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																																				
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METWX-180ARS3B 	Outdoor WLAN/ WiFi Triband Tilt/ Swivel Dipole Whip Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.9</td> <td>3.7</td> <td>53</td> </tr> <tr> <td>5150-5850</td> <td>1.6</td> <td>5.5</td> <td>69</td> </tr> <tr> <td>5925-7125</td> <td>2.0</td> <td>4.9</td> <td>66</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.9	3.7	53	5150-5850	1.6	5.5	69	5925-7125	2.0	4.9	66	Polarization	Linear	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>203xø13 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> <tr> <td>IP Rating</td> <td>IP67</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	RP-SMA Plug	Dimensions	203xø13 mm	Op. Temp.	-30°C to +70°C	IP Rating	IP67
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METWX-100BRS3B 	WLAN/WiFi Trib- and Tilt/Swivel Dipole Whip Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.6</td> <td>2.6</td> <td>71</td> </tr> <tr> <td>5150-5850</td> <td>1.5</td> <td>4.3</td> <td>57</td> </tr> <tr> <td>5925-7125</td> <td>3.0</td> <td>4.4</td> <td>58</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.6	2.6	71	5150-5850	1.5	4.3	57	5925-7125	3.0	4.4	58	Polarization	Linear	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>124xø13 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	RP-SMA Plug	Dimensions	124xø13 mm	Op. Temp.	-30°C to +70°C		
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METWX-180BRS3B 	WLAN/WiFi Trib- and Tilt/Swivel Dipole Whip Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.9</td> <td>3.7</td> <td>53</td> </tr> <tr> <td>5150-5850</td> <td>1.6</td> <td>5.5</td> <td>69</td> </tr> <tr> <td>5925-7125</td> <td>2.0</td> <td>4.9</td> <td>66</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.9	3.7	53	5150-5850	1.6	5.5	69	5925-7125	2.0	4.9	66	Polarization	Linear	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>203xø13 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	RP-SMA Plug	Dimensions	203xø13 mm	Op. Temp.	-30°C to +70°C		
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External



Connector Mount

Part Number	Overview	Electrical Data	Mechanical Data																																				
METMX-221ARS3B 	WLAN/WiFi Trib- and Right-Angle Monopole Whip Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.5</td> <td>1.1</td> <td>49</td> </tr> <tr> <td>5150-5850</td> <td>2.5</td> <td>3.0</td> <td>62</td> </tr> <tr> <td>5925-7125</td> <td>3.0</td> <td>3.5</td> <td>61</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{4}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Monopole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.5	1.1	49	5150-5850	2.5	3.0	62	5925-7125	3.0	3.5	61	Polarization	Linear	Wavelength	$\frac{1}{4}\lambda$	Electrical Type	Monopole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>47xø8 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	RP-SMA Plug	Dimensions	47xø8 mm	Op. Temp.	-30°C to +70°C		
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METWX-144XRS3B 	WLAN/WiFi Trib- and Tilt/Swivel Dipole Whip Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.3</td> <td>2.5</td> <td>70</td> </tr> <tr> <td>5150-5850</td> <td>1.6</td> <td>4.2</td> <td>56</td> </tr> <tr> <td>5925-7125</td> <td>2.1</td> <td>4.4</td> <td>57</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.3	2.5	70	5150-5850	1.6	4.2	56	5925-7125	2.1	4.4	57	Polarization	Linear	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>138xø13 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	RP-SMA Plug	Dimensions	138xø13 mm	Op. Temp.	-30°C to +70°C		
Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																																				
2400-2500	1.3	2.5	70																																				
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METHX-325ARS3B New 	WLAN/WiFi Trib- and Dipole Straight Whip Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>2.0</td> <td>3.3</td> <td>64</td> </tr> <tr> <td>5150-5850</td> <td>2.0</td> <td>3.8</td> <td>62</td> </tr> <tr> <td>5925-7125</td> <td>2.7</td> <td>2.6</td> <td>51</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	2.0	3.3	64	5150-5850	2.0	3.8	62	5925-7125	2.7	2.6	51	Polarization	Linear	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>105xø13.5 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	RP-SMA Plug	Dimensions	105xø13.5 mm	Op. Temp.	-30°C to +70°C		
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METHX-150XNX3B New 	WLAN/WiFi Trib- and Dipole Straight Blade Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>2.0</td> <td>4.0</td> <td>70</td> </tr> <tr> <td>5150-5850</td> <td>2.0</td> <td>5.5</td> <td>77</td> </tr> <tr> <td>5925-7125</td> <td>2.0</td> <td>4.8</td> <td>68</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	2.0	4.0	70	5150-5850	2.0	5.5	77	5925-7125	2.0	4.8	68	Polarization	Linear	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>178xø21 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-40°C to +85°C</td> </tr> <tr> <td>IP Rating</td> <td>IP67</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	RP-SMA Plug	Dimensions	178xø21 mm	Op. Temp.	-40°C to +85°C	IP Rating	IP67
Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																																				
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WiFi / WLAN

External

Panel Mount

METWF-144XMP3B-*	Overview	Electrical Data				Mechanical Data	
	WLAN/WiFi Trib-band Tilt/Swivel Dipole Whip Flying Lead	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
		2400-2500	1.8	2.0	52	Termination	MHF1 Plug
		5150-5850	2.0	3.8	70	Dimensions	131xø13 mm
		5925-7125	2.5	3.8	72	Op. Temp.	-30°C to +70°C
Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4				Polarization	Linear		
				Wavelength	$\frac{1}{2}\lambda$	Cable Type	ø1.37mm
				Electrical Type	Dipole	Cable Length*	150mm
				Radiation Pattern	Omni directional		
				Impedance (Ohms)	50		
METWF-1511MP1B-*	Overview	Electrical Data				Mechanical Data	
	WLAN/WiFi Dual-band Tilt/Swivel Dipole Whip Flying Lead	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
		2400-2500	1.8	3.6	55	Termination	MHF1 Plug
		5150-5850	2.0	5.0	70	Dimensions	191xø13 mm
					Polarization	Linear	Op. Temp.
Applications WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4				Wavelength	$\frac{1}{2}\lambda$	Cable Type	ø1.37mm
				Electrical Type	Dipole	Cable Length*	150mm
				Radiation Pattern	Omni directional		
				Impedance (Ohms)	50		

External



Connector Mount

Part Number	Overview	Electrical Data	Mechanical Data																																		
METWX-282BRS3B 	WLAN/WiFi Tri-band Tilt/Swivel Dipole Whip Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.4</td> <td>2.0</td> <td>67</td> </tr> <tr> <td>5150-5850</td> <td>1.5</td> <td>3.0</td> <td>73</td> </tr> <tr> <td>5925-7125</td> <td>2.7</td> <td>3.3</td> <td>70</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.4	2.0	67	5150-5850	1.5	3.0	73	5925-7125	2.7	3.3	70	Polarization	Linear	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>86x\varnothing10 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	RP-SMA Plug	Dimensions	86x \varnothing 10 mm	Op. Temp.	-30°C to +70°C
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METWX-241BRS3B 	WLAN/WiFi Tri-band Tilt/Swivel Dipole Whip Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.3</td> <td>2.1</td> <td>65</td> </tr> <tr> <td>5150-5850</td> <td>1.4</td> <td>3.1</td> <td>69</td> </tr> <tr> <td>5925-7125</td> <td>2.1</td> <td>3.3</td> <td>72</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.3	2.1	65	5150-5850	1.4	3.1	69	5925-7125	2.1	3.3	72	Polarization	Linear	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>108x\varnothing10 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	RP-SMA Plug	Dimensions	108x \varnothing 10 mm	Op. Temp.	-30°C to +70°C
	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																																	
2400-2500	1.3	2.1	65																																		
5150-5850	1.4	3.1	69																																		
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Polarization	Linear																																				
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Impedance (Ohms)	50																																				
Mounting Type	Connector Mount																																				
Termination	RP-SMA Plug																																				
Dimensions	108x \varnothing 10 mm																																				
Op. Temp.	-30°C to +70°C																																				
METHX-328XRS3B 	WLAN/WiFi Triband Dipole Straight Whip Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.8</td> <td>2.0</td> <td>52</td> </tr> <tr> <td>5150-5850</td> <td>1.8</td> <td>2.9</td> <td>73</td> </tr> <tr> <td>5925-7125</td> <td>2.1</td> <td>3.5</td> <td>55</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.8	2.0	52	5150-5850	1.8	2.9	73	5925-7125	2.1	3.5	55	Polarization	Linear	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>46x\varnothing11 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	RP-SMA Plug	Dimensions	46x \varnothing 11 mm	Op. Temp.	-30°C to +70°C
	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																																	
2400-2500	1.8	2.0	52																																		
5150-5850	1.8	2.9	73																																		
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WiFi / WLAN





External

Panel Mount

METWF-282BMP3B-*	Overview	Electrical Data				Mechanical Data	
	WLAN/WiFi Tri-band Tilt/Swivel Dipole Whip, Flying Lead	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
	Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	2400-2500	1.4	2.0	67	Termination	MHF1 Plug
	5150-5850	1.5	3.0	73	Dimensions	82xø10 mm	
	5925-7125	2.7	3.3	70	Op. Temp.	-30°C to +70°C	
	WLAN/WiFi Tri-band Tilt/Swivel Dipole Whip, Flying Lead	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
	Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	2400-2500	1.3	2.1	65	Termination	MHF1 Plug
	5150-5850	1.4	3.1	69	Dimensions	105xø10 mm	
	5925-7125	2.1	3.3	72	Op. Temp.	-30°C to +70°C	
		Polarization	Linear			Cable Type	ø1.37mm
		Wavelength	$\frac{1}{2}\lambda$			Cable Length*	150mm
		Electrical Type	Dipole				
		Radiation Pattern	Omni directional				
		Impedance (Ohms)	50				

External

Connector Mount

Part Number	Overview	Electrical Data	Mechanical Data																																				
METGX-1023NF3W 	Outdoor WLAN/ WiFi tri-band Fi- berglass Dipole Baton/Stick Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.5</td> <td>2.7</td> <td>77</td> </tr> <tr> <td>5150-5850</td> <td>1.8</td> <td>6.3</td> <td>63</td> </tr> <tr> <td>5925-7125</td> <td>2.4</td> <td>6.8</td> <td>43</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.5	2.7	77	5150-5850	1.8	6.3	63	5925-7125	2.4	6.8	43	Polarization	Linear	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination*</td> <td>N-Type Jack N-Type Plug</td> </tr> <tr> <td>Dimensions</td> <td>145x\varnothing25 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-40°C to +85°C</td> </tr> <tr> <td>IP Rating</td> <td>IP67</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination*	N-Type Jack N-Type Plug	Dimensions	145x \varnothing 25 mm	Op. Temp.	-40°C to +85°C	IP Rating	IP67
	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																																			
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Op. Temp.	-40°C to +85°C																																						
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METGX-1123NX3W 	Outdoor WLAN/ WiFi Tri-band Fiberglass Dipole Baton/Stick Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.4</td> <td>2.9</td> <td>73</td> </tr> <tr> <td>5150-5850</td> <td>1.7</td> <td>5.0</td> <td>60</td> </tr> <tr> <td>5925-7125</td> <td>1.8</td> <td>5.5</td> <td>40</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.4	2.9	73	5150-5850	1.7	5.0	60	5925-7125	1.8	5.5	40	Polarization	Linear	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>N-Type Plug</td> </tr> <tr> <td>Dimensions</td> <td>152x\varnothing24 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-40°C to +85°C</td> </tr> <tr> <td>IP Rating</td> <td>IP67</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	N-Type Plug	Dimensions	152x \varnothing 24 mm	Op. Temp.	-40°C to +85°C	IP Rating	IP67
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Dimensions	152x \varnothing 24 mm																																						
Op. Temp.	-40°C to +85°C																																						
IP Rating	IP67																																						
METGX-1017NX3W 	Outdoor WLAN/ WiFi Tri-band Fiberglass Dipole Baton/Stick Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.8</td> <td>7.2</td> <td>77</td> </tr> <tr> <td>5150-5850</td> <td>2.3</td> <td>7.5</td> <td>68</td> </tr> <tr> <td>5925-7125</td> <td>3.6</td> <td>7.9</td> <td>70</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.8	7.2	77	5150-5850	2.3	7.5	68	5925-7125	3.6	7.9	70	Polarization	Linear	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>N-Type Jack</td> </tr> <tr> <td>Dimensions</td> <td>528x\varnothing20 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-40°C to +85°C</td> </tr> <tr> <td>IP Rating</td> <td>IP67</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	N-Type Jack	Dimensions	528x \varnothing 20 mm	Op. Temp.	-40°C to +85°C	IP Rating	IP67
	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																																			
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METGX-103XNF1W 	Outdoor WLAN/ WiFi Dual-band Fiberglass Dipole Baton/Stick Applications WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>2.5</td> <td>7.0</td> <td>68</td> </tr> <tr> <td>5150-5850</td> <td>3.0</td> <td>9.0</td> <td>75</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	2.5	7.0	68	5150-5850	3.0	9.0	75	Polarization	Linear	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>N-Type Jack</td> </tr> <tr> <td>Dimensions</td> <td>621x\varnothing22 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> <tr> <td>IP Rating</td> <td>IP65</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	N-Type Jack	Dimensions	621x \varnothing 22 mm	Op. Temp.	-30°C to +70°C	IP Rating	IP65				
	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																																			
2400-2500	2.5	7.0	68																																				
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IP Rating	IP65																																						

WiFi / WLAN

External

Connector Mount

Part Number	Overview	Electrical Data	Mechanical Data																																		
METWX-711BRS3B 	WLAN/WiFi Triband Tilt/Swivel Dipole Blade Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.7</td> <td>3.0</td> <td>72</td> </tr> <tr> <td>5150-5850</td> <td>1.8</td> <td>5.3</td> <td>62</td> </tr> <tr> <td>5925-7125</td> <td>2.0</td> <td>6.2</td> <td>64</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.7	3.0	72	5150-5850	1.8	5.3	62	5925-7125	2.0	6.2	64	Polarization	Linear	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>136x24x11 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	RP-SMA Plug	Dimensions	136x24x11 mm	Op. Temp.	-30°C to +70°C
Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																																		
2400-2500	1.7	3.0	72																																		
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METWX-614XRS3B 	WLAN/WiFi Dual-band Tilt/Swivel Dipole Blade Applications WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.8</td> <td>3.2</td> <td>59</td> </tr> <tr> <td>5150-5850</td> <td>1.6</td> <td>6.2</td> <td>71</td> </tr> <tr> <td>5925-7125</td> <td>3.0</td> <td>5.4</td> <td>59</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.8	3.2	59	5150-5850	1.6	6.2	71	5925-7125	3.0	5.4	59	Polarization	Linear	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>160x22x13 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	RP-SMA Plug	Dimensions	160x22x13 mm	Op. Temp.	-30°C to +70°C
Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																																		
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Dimensions	160x22x13 mm																																				
Op. Temp.	-30°C to +70°C																																				
METWX-6231RS2B 	WLAN/WiFi Dual-band Tilt/Swivel Dipole Blade Applications WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>2.0</td> <td>4.0</td> <td>70</td> </tr> <tr> <td>5150-5850</td> <td>2.0</td> <td>5.5</td> <td>77</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	2.0	4.0	70	5150-5850	2.0	5.5	77	Polarization	Linear	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>205x25x13 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	RP-SMA Plug	Dimensions	205x25x13 mm	Op. Temp.	-30°C to +70°C				
Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																																		
2400-2500	2.0	4.0	70																																		
5150-5850	2.0	5.5	77																																		
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Wavelength	$\frac{1}{2}\lambda$																																				
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Radiation Pattern	Omni directional																																				
Impedance (Ohms)	50																																				
Mounting Type	Connector Mount																																				
Termination	RP-SMA Plug																																				
Dimensions	205x25x13 mm																																				
Op. Temp.	-30°C to +70°C																																				
METWX-721XRS3B 	WLAN/WiFi Triband Tilt/Swivel Dipole Blade Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.4</td> <td>2.4</td> <td>57</td> </tr> <tr> <td>5150-5850</td> <td>1.9</td> <td>3.8</td> <td>63</td> </tr> <tr> <td>5925-7125</td> <td>1.6</td> <td>5.0</td> <td>69</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.4	2.4	57	5150-5850	1.9	3.8	63	5925-7125	1.6	5.0	69	Polarization	Linear	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Connector Mount</td> </tr> <tr> <td>Termination</td> <td>RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>150x22x11 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-20°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector Mount	Termination	RP-SMA Plug	Dimensions	150x22x11 mm	Op. Temp.	-20°C to +70°C
Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																																		
2400-2500	1.4	2.4	57																																		
5150-5850	1.9	3.8	63																																		
5925-7125	1.6	5.0	69																																		
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Wavelength	$\frac{1}{2}\lambda$																																				
Electrical Type	Dipole																																				
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Impedance (Ohms)	50																																				
Mounting Type	Connector Mount																																				
Termination	RP-SMA Plug																																				
Dimensions	150x22x11 mm																																				
Op. Temp.	-20°C to +70°C																																				

External

Panel Mount

METHX-3802NF3B



Overview

WLAN/WiFi Dual-band Dipole
Dome/Saltshaker

Applications

WiFi 6, WiFi 5,
WiFi 4, U-NII,
802.11, 802.15.4

Electrical Data

Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)
2400-2500	2.2	2.4	48
5150-5850	2.8	2.6	63

Polarization	Linear
Wavelength	$\frac{1}{2}\lambda$
Electrical Type	Dipole
Radiation Pattern	Omni directional
Impedance (Ohms)	50

Mechanical Data

Mounting Type	Panel Mount
Termination	N-Type Jack
Dimensions	77.7x \varnothing 38 mm
Op. Temp.	-40°C to +85°C
IP Rating	IP67

METHX-3602NF3B



Overview

WLAN/WiFi Tri-band Dipole
Dome/Saltshaker

Applications

WiFi 7, WiFi 6E,
WiFi 6, WiFi 5,
WiFi 4, U-NII,
802.11, 802.15.4

Electrical Data

Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)
2400-2500	2.0	2.0	45
5150-5850	2.0	2.0	60
5925-7125	3.0	2.0	63

Polarization	Linear
Wavelength	$\frac{1}{2}\lambda$
Electrical Type	Dipole
Radiation Pattern	Omni directional
Impedance (Ohms)	50


Mechanical Data


Mounting Type	Panel Mount
Termination	N-Type Jack
Dimensions	71x \varnothing 40.2 mm
Op. Temp.	-30°C to +70°C
IP Rating	IP65

WiFi / WLAN

External


Panel Mount


METHF-3802RS3B-*	Overview	Electrical Data				Mechanical Data	
	WLAN/WiFi Dual-band Dipole Dome/Saltshaker, Flying Lead	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
	Applications WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	2400-2500	2.2	2.4	48	Termination	RP-SMA Plug
		5150-5850	2.8	2.6	63	Dimensions	77.7xø38 mm
						Op. Temp.	-40°C to +85°C
						Cable Type	RG174
						Cable Length*	1000 mm
							2000 mm
		Polarization	Linear			IP Rating	IP67
		Wavelength	$\frac{1}{2}\lambda$				
		Electrical Type	Dipole				
		Radiation Pattern	Omni directional				
		Impedance (Ohms)	50				


METHF-3602RS3B-*	Overview	Electrical Data				Mechanical Data	
	WLAN/WiFi Tri-band Dipole Dome/Saltshaker, Flying Lead	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
	Applications WiFi 7, WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	2400-2500	2.0	2.0	45	Termination	RP-SMA Plug
		5150-5850	2.0	2.0	60	Dimensions	71xø40.2 mm
		5925-7125	3.0	2.0	63	Op. Temp.	-30°C to +70°C
						Cable Type	RG174
						Cable Length*	1000 mm
							2000 mm
		Polarization	Linear			IP Rating	IP65
		Wavelength	$\frac{1}{2}\lambda$				
		Electrical Type	Dipole				
		Radiation Pattern	Omni directional				
		Impedance (Ohms)	50				

Remote

Adhesive Mount

METAF-603XRS1B-*	Overview	Electrical Data				Mechanical Data	
	WLAN/WiFi Dual-band Dipole Adhesive Blade/Bar, Flying Lead	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive Mount
	Applications WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	2400-2500	2.0	3.0	65	Termination	RP-SMA Plug
	5150-5850	2.0	4.2	70	Dimensions	110x20x6 mm	
					Op. Temp.	-30°C to +70°C	
				Polarization	Linear	Cable Type	RG174
				Wavelength	$\frac{1}{2}\lambda$	Cable Length*	1000 mm
				Electrical Type	Dipole		2000 mm
				Radiation Pattern	Omni directional		
				Impedance (Ohms)	50		

METAF-601XRS1B-*	Overview	Electrical Data				Mechanical Data	
	WLAN/WiFi Dual-band Dipole Adhesive Blade/Bar, Flying Lead	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive Mount
	Applications WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	2400-2500	2.0	2.0	66	Termination	RP-SMA Plug
	5150-5850	2.0	3.0	73	Dimensions	146x20x13 mm	
					Op. Temp.	-30°C to +70°C	
				Polarization	Linear	Cable Type	RG174
				Wavelength	$\frac{1}{2}\lambda$	Cable Length*	1000 mm
				Electrical Type	Dipole		2000 mm
				Radiation Pattern	Omni directional		
				Impedance (Ohms)	50		

METAF-350XRS1B-*	Overview	Electrical Data				Mechanical Data	
	WLAN/WiFi Dual-band Dipole Adhesive Puck, Flying Lead	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive Mount
	Applications WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	2400-2500	2.0	1.5	61	Termination	RP-SMA Plug
	5150-5850	2.0	2.0	68	Dimensions	9.8xø50 mm	
					Op. Temp.	-30°C to +70°C	
				Polarization	Linear	Cable Type	RG174
				Wavelength	$\frac{1}{2}\lambda$	Cable Length*	1000 mm
				Electrical Type	Dipole		2000 mm
				Radiation Pattern	Omni directional		
				Impedance (Ohms)	50		

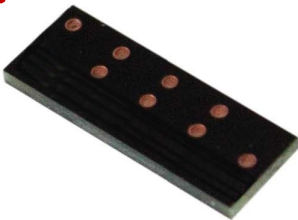
2.4 GHz ISM Antennas

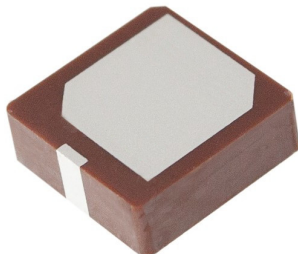
MAP Electronics 2.4 GHz single-band antennas provide a broad band range of styles, mounting, termination and level of performance to accommodate ISM applications including:

- BlueTooth®
- ZigBee®
- Thread®
- IEEE 802.11b/g
- IEEE 802.15.4

Internal

Surface Mount

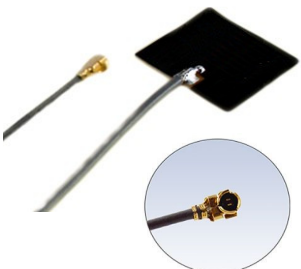
MEIRD-C013SMDB	Overview	Electrical Data	Mechanical Data																		
 <p>New</p>	2.4 GHz ISM band Monopole PCB Chip SMD Type	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.6</td> <td>2.9</td> <td>59</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.6	2.9	59	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Surface Mount</th> </tr> </thead> <tbody> <tr> <td>Termination</td> <td>Solder Pad</td> </tr> <tr> <td>Dimensions</td> <td>13x4.5x0.8 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-40°C to +85°C</td> </tr> <tr> <td>Ground Plane</td> <td>50 x 20 mm</td> </tr> </tbody> </table>	Mounting Type	Surface Mount	Termination	Solder Pad	Dimensions	13x4.5x0.8 mm	Op. Temp.	-40°C to +85°C	Ground Plane	50 x 20 mm
	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																	
2400-2500	1.6	2.9	59																		
Mounting Type	Surface Mount																				
Termination	Solder Pad																				
Dimensions	13x4.5x0.8 mm																				
Op. Temp.	-40°C to +85°C																				
Ground Plane	50 x 20 mm																				
<p>Applications Bluetooth, Zigbee, Thread, 802.15.4, 802.11b/g</p>	<table border="1"> <thead> <tr> <th>Polarization</th> <th>Linear</th> </tr> </thead> <tbody> <tr> <td>Wavelength</td> <td>$\frac{1}{4}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Monopole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Polarization	Linear	Wavelength	$\frac{1}{4}\lambda$	Electrical Type	Monopole	Radiation Pattern	Omni directional	Impedance (Ohms)	50										
Polarization	Linear																				
Wavelength	$\frac{1}{4}\lambda$																				
Electrical Type	Monopole																				
Radiation Pattern	Omni directional																				
Impedance (Ohms)	50																				


MEIPD-C012SMDB	Overview	Electrical Data	Mechanical Data																		
 <p>New</p>	2.4 GHz ISM band Directional Ceramic Patch SMD Type	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>3.1</td> <td>5.6</td> <td>62</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	3.1	5.6	62	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Surface Mount</th> </tr> </thead> <tbody> <tr> <td>Termination</td> <td>Solder Pad</td> </tr> <tr> <td>Dimensions</td> <td>12x12x4 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-40°C to +105°C</td> </tr> <tr> <td>Ground Plane</td> <td>60 x 60 mm</td> </tr> </tbody> </table>	Mounting Type	Surface Mount	Termination	Solder Pad	Dimensions	12x12x4 mm	Op. Temp.	-40°C to +105°C	Ground Plane	60 x 60 mm
	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																	
2400-2500	3.1	5.6	62																		
Mounting Type	Surface Mount																				
Termination	Solder Pad																				
Dimensions	12x12x4 mm																				
Op. Temp.	-40°C to +105°C																				
Ground Plane	60 x 60 mm																				
<p>Applications Bluetooth, Zigbee, Thread, 802.15.4, 802.11b/g</p>	<table border="1"> <thead> <tr> <th>Polarization</th> <th>RHCP</th> </tr> </thead> <tbody> <tr> <td>Wavelength</td> <td>$\frac{1}{2}\lambda$</td> </tr> <tr> <td>Electrical Type</td> <td>Radiating Patch</td> </tr> <tr> <td>Radiation Pattern</td> <td>Directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Polarization	RHCP	Wavelength	$\frac{1}{2}\lambda$	Electrical Type	Radiating Patch	Radiation Pattern	Directional	Impedance (Ohms)	50										
Polarization	RHCP																				
Wavelength	$\frac{1}{2}\lambda$																				
Electrical Type	Radiating Patch																				
Radiation Pattern	Directional																				
Impedance (Ohms)	50																				

2.4 GHz ISM

Internal

Adhesive Mount

MEIBF-H015MPXB-* 	Overview 2.4 GHz ISM Adhesive FPC Dipole Flexible Flat Patch with Orthogonal Cable	Electrical Data	Mechanical Data																			
	Applications Bluetooth, Zigbee, Thread, 802.15.4, 802.11b/g	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>2.2</td> <td>2.0</td> <td>53</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	2.2	2.0	53	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Adhesive Mount</td> </tr> <tr> <td>Termination*</td> <td>U.FL-type Plug /MHF1 Plug /MHF4L Plug</td> </tr> <tr> <td>Dimensions</td> <td>15x15x0.2 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-40°C to +85°C</td> </tr> <tr> <td>Cable Type</td> <td>∅1.13mm</td> </tr> <tr> <td>Cable Length*</td> <td>60 mm 120 mm 180 mm</td> </tr> </tbody> </table>	Mounting Type	Adhesive Mount	Termination*	U.FL-type Plug /MHF1 Plug /MHF4L Plug	Dimensions	15x15x0.2 mm	Op. Temp.	-40°C to +85°C	Cable Type	∅1.13mm	Cable Length*
Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																			
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	Electrical Data	<table border="1"> <tbody> <tr> <td>Polarization</td> <td>Linear</td> </tr> <tr> <td>Wavelength</td> <td>½-λ</td> </tr> <tr> <td>Electrical Type</td> <td>Dipole</td> </tr> <tr> <td>Radiation Pattern</td> <td>Omni directional</td> </tr> <tr> <td>Impedance (Ohms)</td> <td>50</td> </tr> </tbody> </table>	Polarization	Linear	Wavelength	½-λ	Electrical Type	Dipole	Radiation Pattern	Omni directional	Impedance (Ohms)	50										
Polarization	Linear																					
Wavelength	½-λ																					
Electrical Type	Dipole																					
Radiation Pattern	Omni directional																					
Impedance (Ohms)	50																					

MEIBF-H040MPXB-* 	Overview 2.4 GHz ISM Adhesive FPC Dipole Flexible Flat Patch with Orthogonal Cable	Electrical Data	Mechanical Data																			
	Applications Bluetooth, Zigbee, Thread, 802.15.4, 802.11b/g	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.3</td> <td>3.1</td> <td>57</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.3	3.1	57	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Adhesive Mount</td> </tr> <tr> <td>Termination*</td> <td>U.FL-type Plug /MHF1 Plug /MHF4L Plug</td> </tr> <tr> <td>Dimensions</td> <td>40x7x0.2 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-40°C to +85°C</td> </tr> <tr> <td>Cable Type</td> <td>∅1.13mm</td> </tr> <tr> <td>Cable Length*</td> <td>60 mm 120 mm 180 mm</td> </tr> </tbody> </table>	Mounting Type	Adhesive Mount	Termination*	U.FL-type Plug /MHF1 Plug /MHF4L Plug	Dimensions	40x7x0.2 mm	Op. Temp.	-40°C to +85°C	Cable Type	∅1.13mm	Cable Length*
Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)																			
2400-2500	1.3	3.1	57																			
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Wavelength	½-λ																					
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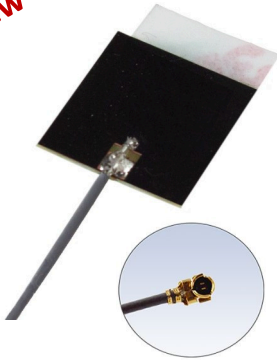
2.4 GHz ISM

Internal

Adhesive Mount

MEIRF-H015MPXB-*

New



Overview

2.4 GHz ISM Adhesive PCB Dipole Rigid Flat Patch with Orthogonal Cable

Applications

Bluetooth, Zigbee, Thread, 802.15.4, 802.11b/g

Electrical Data

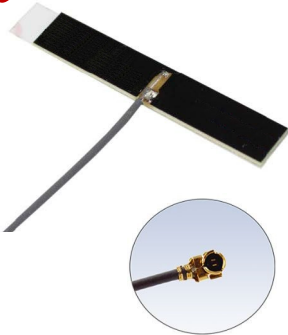
Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)
2400-2500	2.1	3.1	57
Polarization: Linear			
Wavelength: $\frac{1}{2}\lambda$			
Electrical Type: Dipole			
Radiation Pattern: Omni directional			
Impedance (Ohms): 50			

Mechanical Data

Mounting Type	Adhesive Mount
Termination*	U.FL-type Plug /MHF1 Plug /MHF4L Plug
Dimensions	15x15x1.1 mm
Op. Temp.	-40°C to +85°C
Cable Type	∅1.13mm
Cable Length*	60 mm 120 mm 180 mm

MEIRF-H040MPXB-*

New



Overview

2.4 GHz ISM Adhesive PCB Dipole Rigid Flat Patch with Orthogonal Cable

Applications

Bluetooth, Zigbee, Thread, 802.15.4, 802.11b/g

Electrical Data

Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)
2400-2500	1.3	3.5	61
Polarization: Linear			
Wavelength: $\frac{1}{2}\lambda$			
Electrical Type: Dipole			
Radiation Pattern: Omni directional			
Impedance (Ohms): 50			

Mechanical Data

Mounting Type	Adhesive Mount
Termination*	U.FL-type Plug /MHF1 Plug /MHF4L Plug
Dimensions	40x7x1.1 mm
Op. Temp.	-40°C to +85°C
Cable Type	∅1.13mm
Cable Length*	60 mm 120 mm 180 mm

2.4 GHz ISM

External

Connector Mount

MEIHX-2120RSXW

New



Overview

2.4 GHz ISM
Straight Monopole
Whip

Applications

Bluetooth, Zigbee,
Thread, 802.15.4,
802.11b/g

Electrical Data

Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)
2400-2500	1.6	3.7	71

Polarization	Linear
Wavelength	$\frac{1}{4}\lambda$
Electrical Type	Monopole
Radiation Pattern	Omni directional
Impedance (Ohms)	50

Mechanical Data

Mounting Type	Connector Mount
Termination	RP-SMA Plug
Dimensions	22x \varnothing 9 mm
Op. Temp.	-30°C to +70°C
Ground Plane	120 x 120 mm

MEIHX-325ARSXB

New



Overview

2.4 GHz ISM
Straight Monopole
Whip

Applications

Bluetooth, Zigbee,
Thread, 802.15.4,
802.11b/g

Electrical Data

Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)
2400-2500	2.0	2.6	65

Polarization	Linear
Wavelength	$\frac{1}{2}\lambda$
Electrical Type	Dipole
Radiation Pattern	Omni directional
Impedance (Ohms)	50

Mechanical Data

Mounting Type	Connector Mount
Termination	RP-SMA Plug
Dimensions	105x \varnothing 13.5 mm
Op. Temp.	-30°C to +70°C

MEIWX-282BRSXB



Overview

2.4 GHz ISM Tilt/
Swivel Dipole
Whip

Applications

Bluetooth, Zigbee,
Thread, 802.15.4,
802.11b/g

Electrical Data

Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)
2400-2500	1.6	2.4	72

Polarization	Linear
Wavelength	$\frac{1}{2}\lambda$
Electrical Type	Dipole
Radiation Pattern	Omni directional
Impedance (Ohms)	50

Mechanical Data

Mounting Type	Connector Mount
Termination	RP-SMA Plug
Dimensions	86x \varnothing 10 mm
Op. Temp.	-30°C to +70°C

MEIWX-241BRSXB



Overview

2.4 GHz ISM Tilt/
Swivel Dipole
Whip

Applications

Bluetooth, Zigbee,
Thread, 802.15.4,
802.11b/g

Electrical Data

Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)
2400-2500	1.5	2.5	67

Polarization	Linear
Wavelength	$\frac{1}{2}\lambda$
Electrical Type	Dipole
Radiation Pattern	Omni directional
Impedance (Ohms)	50


Mechanical Data

Mounting Type	Connector Mount
Termination	RP-SMA Plug
Dimensions	108x \varnothing 10 mm
Op. Temp.	-30°C to +70°C

2.4 GHz ISM

External

Panel Mount

MEIHF-2120MPXB-*	Overview	Electrical Data	Mechanical Data																						
	2.4 GHz ISM Straight Monopole Whip, Flying Lead	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.2</td> <td>2.7</td> <td>63</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.2	2.7	63	<table border="1"> <thead> <tr> <th>Mounting Type</th> <td>Panel Mount</td> </tr> <tr> <th>Termination</th> <td>MHF1 Plug</td> </tr> <tr> <th>Dimensions</th> <td>14x9 mm</td> </tr> <tr> <th>Op. Temp.</th> <td>-30°C to +70°C</td> </tr> <tr> <th>Cable Type</th> <td>∅1.13mm</td> </tr> <tr> <th>Cable Length*</th> <td>100 mm</td> </tr> <tr> <td></td> <td>150 mm</td> </tr> </thead> </table>	Mounting Type	Panel Mount	Termination	MHF1 Plug	Dimensions	14x9 mm	Op. Temp.	-30°C to +70°C	Cable Type	∅1.13mm	Cable Length*	100 mm		150 mm
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2.4 GHz ISM

External


Connector Mount


MEIWX-180ARSXB	Overview	Electrical Data	Mechanical Data																		
	Outdoor 2.4 GHz ISM Tilt/Swivel Dipole Whip	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>2400-2500</td> <td>1.9</td> <td>4.5</td> <td>77</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	2400-2500	1.9	4.5	77	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Connector</th> </tr> </thead> <tbody> <tr> <td>Termination</td> <td>RP-SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>203xø13 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> <tr> <td>IP Rating</td> <td>IP67</td> </tr> </tbody> </table>	Mounting Type	Connector	Termination	RP-SMA Plug	Dimensions	203xø13 mm	Op. Temp.	-30°C to +70°C	IP Rating	IP67
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<p>Applications Bluetooth, Zigbee, Thread, 802.15.4, 802.11b/g</p> <p>Polarization: Linear Wavelength: ½-λ Electrical Type: Dipole Radiation Pattern: Omni directional Impedance (Ohms): 50</p>																					

2.4 GHz ISM

External

Connector Mount

MEIGX-1023NFXW	Overview	Electrical Data				Mechanical Data	
	Outdoor 2.4 GHz ISM Fiberglass Dipole Baton/Stick	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
		2400-2500	2.0	3.3	72	Termination*	N-Type Jack N-Type Plug
	Applications Bluetooth, Zigbee, Thread, 802.15.4, 802.11b/g					Dimensions	145xø25 mm
						Op. Temp.	-40°C to +85°C
						IP Rating	IP67
		Polarization		Linear			
		Wavelength		½-λ			
		Electrical Type		Dipole			
		Radiation Pattern		Omni directional			
		Impedance (Ohms)		50			

MEIGX-1123NXXW	Overview	Electrical Data				Mechanical Data	
	Outdoor 2.4 GHz ISM Fiberglass Dipole Baton/Stick	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
		2400-2500	2.0	3.5	76	Termination	N-Type Plug
	Applications Bluetooth, Zigbee, Thread, 802.15.4, 802.11b/g					Dimensions	152xø24 mm
						Op. Temp.	-40°C to +85°C
						IP Rating	IP67
		Polarization		Linear			
		Wavelength		½-λ			
		Electrical Type		Dipole			
		Radiation Pattern		Omni directional			
		Impedance (Ohms)		50			

GNSS Antennas

MAP Electronics offers internal and external Global Navigation Satellite System (GNSS) antennas for systems including:

- GPS (L1 band central frequency at: 1575.42MHz)
- Galileo (E1 band central frequency at: 1575.42MHz)
- Glonass (G1 band central frequency at: 1602MHz)
- BeiDou/ COMPASS (B1 band central frequency at: 1561MHz)

Data is provided by frequency band in MHz. GNSS frequency band names may be cross-referenced to frequencies using the band table on pages [64](#).

Internal

Surface Mount

MEPPD-C018GL1B

New



Overview

L1, E1, G1, B1C
RHCP Ceramic
Patch SMD Type

Applications

GNSS, Navigation,
Location, Timing,
GZSS

Electrical Data

Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)
1575.46	1.7	3.6	65
1602	1.8	3.9	64

Polarization	RHCP
Wavelength	$\frac{1}{2}\lambda$
Electrical Type	Radiating Patch
Radiation Pattern	Directional
Impedance (Ohms)	50

Mechanical Data

Mounting Type	Surface Mount
Termination	Solder Pad
Dimensions	18x18x4 mm
Op. Temp.	-40°C to +105°C
Ground Plane	60 x 60 mm

MEPCD-C020GL1W

New



Overview

L1, E1, G1, B1, B1C
Monopole Ceramic
Chip SMD Type

Applications

GNSS, Navigation,
Location, Timing,
GZSS

Electrical Data

Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)
1561	1.6	1.1	57
1575.42	1.6	1.1	57
1602	1.9	1.2	53

Polarization	Linear
Wavelength	$\frac{1}{4}\lambda$
Electrical Type	Monopole
Radiation Pattern	Omni directional
Impedance (Ohms)	50

Mechanical Data

Mounting Type	Surface Mount
Termination	Solder Pad
Dimensions	20x3.5x2 mm
Op. Temp.	-40°C to +105°C
Ground Plane	60 x 60 mm

GNSS

Internal

Adhesive plus Through-hole Solder Mount

MEPPX-C025GL1W

New



Overview	Electrical Data				Mechanical Data	
L1, E1, G1, B1, B1C	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive + TH Solder Mount
RHCP Ceramic	1561	2.4	4.0	70	Termination	Solder Pad
Patch Through-hole Pin Type	1575.42	2.2	3.2	63	Dimensions	25x25x4 mm
	1602	1.4	5.2	77	Op. Temp.	-40°C to +105°C
Applications						
GNSS, Navigation, Location, Timing, GZSS						
	Polarization	RHCP				
	Wavelength	$\frac{1}{2}\lambda$				
	Electrical Type	Radiating Patch				
	Radiation Pattern	Directional				
	Impedance (Ohms)	50				
					Ground Plane	60 x 60 mm

Internal

Mechanical Mount

MEPLF-C025MP4B

New



Overview

L1, L2, L5 RHCP
Stacked Ceramic
Patch Active an-
tenna with 1.13
coax cable and
MHF plug con-
nector

Applications

GNSS, Navigation,
Location, Timing,
GZSS

Electrical Data

Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Noise Figure (dB)
1176.45	1.5	28	1.3
1227.6	1.8	27	1.5
1561	5.0	26	1.3
1575.42	2.8	28	1.2
1602	2.2	29	1.2

Polarization	RHCP
Wavelength	$\frac{1}{2}\lambda$
Electrical Type	Radiating Patch + LNA
Radiation Pattern	Directional
Impedance (Ohms)	50

Mechanical Data

Mounting Type	Mechanical Mount
Termination	MHF Plug
Dimensions	25x25x13 mm
Op. Temp.	-40°C to +85°C
Ground Plane	25 x 25 mm
Cable Type	∅1.13 mm
Cable Length*	60 mm 120 mm

Connector Mount

MEPWX-711BSAXB



Overview

L1, E1, G1, B1, B1C
Tilt/Swivel Dipole
Blade

Applications

GNSS, Navigation,
Location, Timing,
GZSS

Electrical Data

Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)
1561	1.3	1.1	67
1575.42	1.2	1.5	71
1602	1.2	1.6	68


Polarization	Linear
Wavelength	$\frac{1}{2}\lambda$
Electrical Type	Dipole
Radiation Pattern	Omni directional
Impedance (Ohms)	50


Mechanical Data

Mounting Type	Connector Mount
Termination	SMA Plug
Dimensions	136x24x11 mm
Op. Temp.	-40°C to +85°C


External


Panel Mount

MEPPX-6030NFXB	Overview	Electrical Data				Mechanical Data	
	L1, E1, G1 RHCP Active Dome with integrated 2-stage LNA	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Noise Figure (dB)	Mounting Type	Panel Mount
	Applications GNSS, Navigation, Location, Timing, GZSS	1561	1.2	28	1.2	Termination	N-Type Jack
		1575.42	2.0	29	1.2	Dimensions	30xø60 mm
		1602	1.9	29	1.3	Op. Temp.	-30°C to +70°C
						IP Rating	IP65

MEPPF-6030SA4B-*	Overview	Electrical Data				Mechanical Data	
	L1, L2, L5 RHCP Active Dome with integrated 2-stage LNA, Coax Cable	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Noise Figure (dB)	Mounting Type	Panel Mount
	Applications GNSS, Navigation, Location, Timing, GZSS	1176.45	1.5	33	1.8	Termination	SMA Plug
		1227.6	1.4	32	1.8	Dimensions	30xø60 mm
		1561	1.2	29	1.6	Op. Temp.	-30°C to +70°C
	1575.42	1.1	30	1.6	Cable Type	RG 174	
	1602	1.5	32	1.6	Cable Length*	1000 mm	

Magnetic Mount

MEPPF-GP07SAXB-*	Overview	Electrical Data	Mechanical Data																														
	L1, E1, G1, B1, B1C RHCP Active Puck with integrated 2-stage LNA, Coax Cable Applications GNSS, Navigation, Location, Timing, GZSS	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Noise Figure (dB)</th> </tr> </thead> <tbody> <tr> <td>1561</td> <td>1.8</td> <td>30</td> <td>0.9</td> </tr> <tr> <td>1575.42</td> <td>2.0</td> <td>29</td> <td>0.9</td> </tr> <tr> <td>1602</td> <td>1.7</td> <td>29</td> <td>0.9</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Noise Figure (dB)	1561	1.8	30	0.9	1575.42	2.0	29	0.9	1602	1.7	29	0.9	<table border="1"> <tbody> <tr> <td>Mounting Type</td> <td>Magnetic Mount</td> </tr> <tr> <td>Termination</td> <td>SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>49x38x17 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> <tr> <td>Cable Type</td> <td>RG 174</td> </tr> <tr> <td>Cable Length*</td> <td>1000 mm 3000 mm</td> </tr> <tr> <td>IP Rating</td> <td>IP65</td> </tr> </tbody> </table>	Mounting Type	Magnetic Mount	Termination	SMA Plug	Dimensions	49x38x17 mm	Op. Temp.	-30°C to +70°C	Cable Type	RG 174	Cable Length*	1000 mm 3000 mm	IP Rating	IP65
		Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Noise Figure (dB)																												
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MEPPF-GP04SA4B-*	Overview	Electrical Data	Mechanical Data																																						
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Combo (MIMO) Antennas

MAP Electronics offers external Multi Input and Multi Output (MIMO) combo all-in-1 antennas for fleet management, public transportation, industrial and other applications combining:

- LTE / Cellular 5G, 4G, 3G, 2G
- WiFi / WLAN
- GNSS
- 2.4 GHz
- UHF / VHF
- ISM / LPWA

External

Panel Mount

MEPPF-095A3SQB-Q200		Overview	Electrical Data				Mechanical Data	
	New 3x3 MIMO Puck WiFi x2, GNSS x1 with Coax Cable	Applications Fleet Management, Public Transportation, Industrial	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
			2400-2500	2.0	2.7	62	Termination	SMA Plug
			5150-5850	2.2	3.6	68	Dimensions	35xø95 mm
			5925-7125	2.1	3.5	73	Op. Temp.	-40°C to +85°C
			1561	1.5	30		Cable Type	RG174/RG58
			1575.42	1.3	30		Cable Length*	1000 mm
			1602	1.5	32			2000 mm
			Polarization		Linear/RHCP (GNSS)		IP Rating	IP67
			Wavelength		¼-λ			
			Electrical Type		Monopole			
			Radiation Pattern		Omni directional			
			Impedance (Ohms)		50			


MEPPF-165A5SNB-Q200		Overview	Electrical Data				Mechanical Data	
	New Outdoor MIMO 5x5 Dome 5G/LTE x2, WiFi x2, GNSS x1	Applications Fleet Management, Public Transportation, Industrial	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
			617-960	4.7	3.8	48	Termination	SMA Plug
			1710-2690	2.1	4.9	51	Dimensions	50xø141.3 mm
			3300-4200	2.0	3.3	35	Op. Temp.	-40°C to +85°C
			4400-5000	1.6	3.7	38	Cable Type	RG58/RG174
			5150-5850	1.7	2.9	32	Cable Length*	2000 mm
			1575.42	1.7	30.0			5000 mm
			Polarization		Linear/RHCP (GNSS)		IP Rating	IP67
			Wavelength		¼-λ			
			Electrical Type		Monopole			
			Radiation Pattern		Omni directional			
			Impedance (Ohms)		50			


MEPPF-168A5SNB-*		Overview	Electrical Data				Mechanical Data	
	Outdoor MIMO 5x5 Dome 5G/LTE x2, WiFi x2, GNSS x1	Applications Fleet Management, Public Transportation, Industrial	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
			617-960	2.5	3.8	66	Termination	SMA Plug
			1710-2690	2.0	4.0	69	Dimensions	85xø142 mm
			3300-4200	2.0	4.7	62	Op. Temp.	-40°C to +85°C
			4400-5000	2.2	4.6	68	Cable Type	RG174/RG58
			5150-5925	2.1	5.5	73	Cable Length*	2000 mm
			1575.42	2.3	30.0			3000 mm
			Polarization		Linear/RHCP (GNSS)		IP Rating	IP67
			Wavelength		¼-λ			
			Electrical Type		Monopole			
			Radiation Pattern		Omni directional			
			Impedance (Ohms)		50			

Combo / MIMO

External

Panel Mount




MEPPF-1003SAXW-*	Overview	Electrical Data				Mechanical Data	
	MIMO 5x5 Dome 4G/LTE x2, WiFi x2, GNSS x1	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
	Applications Fleet Management, Public Transportation, Industrial	698-960	2.8	3.5	42	Termination	SMA Plug
		1710-2690	2.5	4.0	68	Dimensions	75xø107 mm
		2400-2500	2.8	3.4	64	Op. Temp.	-30°C to +70°C
		5150-5850	2.5	5.7	61	Cable Type	RG174/RG58
		1575.42	2.0	30.0		Cable Length*	2000 mm
					3000 mm	IP Rating	IP65
Polarization			Linear/RHCP (GNSS)				
Wavelength			$\frac{1}{2}\lambda$				
Electrical Type			Dipole				
Radiation Pattern			Omni directional				
Impedance (Ohms)			50				

METDF-1204RS1W-*	Overview	Electrical Data				Mechanical Data	
	MIMO 4x4 Dome WiFi x 4 Ceiling Mount DAS	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
	Applications WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, 802.15.4	2400-2500	2.5	2.5	65	Termination	SMA Plug
		5150-5850	2.5	4.3	72	Dimensions	45xø130 mm
						Op. Temp.	-30°C to +70°C
						Cable Type	RG174
						Cable Length*	2000 mm
					3000 mm		
Polarization			Linear				
Wavelength			$\frac{1}{4}\lambda$				
Electrical Type			Monopole				
Radiation Pattern			Directional				
Impedance (Ohms)			50				

Other


External


Connector Mount


MEUHX-465XSAXB	Overview	Electrical Data	Mechanical Data																
	UHF 430 MHz Straight Monopole Whip	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>430</td> <td>2.0</td> <td>2.0</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	430	2.0	2.0	50	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Connector</th> </tr> </thead> <tbody> <tr> <td>Termination</td> <td>SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>193xø14 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector	Termination	SMA Plug	Dimensions	193xø14 mm	Op. Temp.	-30°C to +70°C
	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)															
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Applications LMR for Public Safety	<table border="1"> <thead> <tr> <th>Polarization</th> <th>Wavelength</th> <th>Electrical Type</th> <th>Radiation Pattern</th> <th>Impedance (Ohms)</th> </tr> </thead> <tbody> <tr> <td>Linear</td> <td>¼-λ</td> <td>Monopole</td> <td>Omni directional</td> <td>50</td> </tr> </tbody> </table>	Polarization	Wavelength	Electrical Type	Radiation Pattern	Impedance (Ohms)	Linear	¼-λ	Monopole	Omni directional	50								
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Linear	¼-λ	Monopole	Omni directional	50															
MEUHX-462CSAXB	Overview	Electrical Data	Mechanical Data																
	UHF 400-420MHz Straight Monopole Whip	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>400-420</td> <td>2.0</td> <td>2.0</td> <td>60</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	400-420	2.0	2.0	60	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Connector</th> </tr> </thead> <tbody> <tr> <td>Termination</td> <td>SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>170xø14.8 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector	Termination	SMA Plug	Dimensions	170xø14.8 mm	Op. Temp.	-30°C to +70°C
	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)															
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Linear	¼-λ	Monopole	Omni directional	50															
MEUHX-SH01SAXB	Overview	Electrical Data	Mechanical Data																
	UHF 470-654MHz Straight Monopole Whip	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>470-654</td> <td>2.5</td> <td>2.5</td> <td>50</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	470-654	2.5	2.5	50	<table border="1"> <thead> <tr> <th>Mounting Type</th> <th>Connector</th> </tr> </thead> <tbody> <tr> <td>Termination</td> <td>SMA Plug</td> </tr> <tr> <td>Dimensions</td> <td>133xø10 mm</td> </tr> <tr> <td>Op. Temp.</td> <td>-30°C to +70°C</td> </tr> </tbody> </table>	Mounting Type	Connector	Termination	SMA Plug	Dimensions	133xø10 mm	Op. Temp.	-30°C to +70°C
	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)															
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Polarization	Wavelength	Electrical Type	Radiation Pattern	Impedance (Ohms)															
Linear	¼-λ	Monopole	Omni directional	50															

Remote

Magnetic Mount

MEUAF-121XSAXB-*	Overview	Electrical Data	Mechanical Data																				
	UHF 430 MHz Straight Monopole Magnetic Mount Whip, Flying Lead	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>430</td> <td>2.0</td> <td>2.0</td> <td>60</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	430	2.0	2.0	60	<table border="1"> <thead> <tr> <th>Mounting Type</th> <td>Magnetic Mount</td> </tr> <tr> <th>Termination</th> <td>SMA Plug</td> </tr> <tr> <th>Dimensions</th> <td>178xø27 mm</td> </tr> <tr> <th>Op. Temp.</th> <td>-30°C to +70°C</td> </tr> <tr> <th>Cable Type</th> <td>RG174</td> </tr> <tr> <th>Cable Length*</th> <td>1000 mm 2000 mm</td> </tr> </thead> </table>	Mounting Type	Magnetic Mount	Termination	SMA Plug	Dimensions	178xø27 mm	Op. Temp.	-30°C to +70°C	Cable Type	RG174	Cable Length*	1000 mm 2000 mm
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Wavelength	¼-λ																						
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Radiation Pattern	Omni directional																						
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MEUAF-128XSAXB-*	Overview	Electrical Data	Mechanical Data																				
	UHF 470-490MHz Straight Monopole Magnetic Mount Whip, Flying Lead	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>470-490</td> <td>2.5</td> <td>2.0</td> <td>60</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	470-490	2.5	2.0	60	<table border="1"> <thead> <tr> <th>Mounting Type</th> <td>Magnetic Mount</td> </tr> <tr> <th>Termination</th> <td>SMA Plug</td> </tr> <tr> <th>Dimensions</th> <td>120xø27 mm</td> </tr> <tr> <th>Op. Temp.</th> <td>-30°C to +70°C</td> </tr> <tr> <th>Cable Type</th> <td>RG174</td> </tr> <tr> <th>Cable Length*</th> <td>1000 mm 2000 mm</td> </tr> </thead> </table>	Mounting Type	Magnetic Mount	Termination	SMA Plug	Dimensions	120xø27 mm	Op. Temp.	-30°C to +70°C	Cable Type	RG174	Cable Length*	1000 mm 2000 mm
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Wavelength	¼-λ																						
Electrical Type	Monopole																						
Radiation Pattern	Omni directional																						
Impedance (Ohms)	50																						

MEUAF-126XSAXB-*	Overview	Electrical Data	Mechanical Data																				
	UHF 430MHz Straight Monopole Magnetic Mount Whip, Flying Lead	<table border="1"> <thead> <tr> <th>Frequency (MHz)</th> <th>VSWR (Max)</th> <th>Peak Gain (dBi)</th> <th>Efficiency (%)</th> </tr> </thead> <tbody> <tr> <td>430</td> <td>2.0</td> <td>0.3</td> <td>47</td> </tr> </tbody> </table>	Frequency (MHz)	VSWR (Max)	Peak Gain (dBi)	Efficiency (%)	430	2.0	0.3	47	<table border="1"> <thead> <tr> <th>Mounting Type</th> <td>Magnetic Mount</td> </tr> <tr> <th>Termination</th> <td>SMA Plug</td> </tr> <tr> <th>Dimensions</th> <td>120xø27 mm</td> </tr> <tr> <th>Op. Temp.</th> <td>-30°C to +70°C</td> </tr> <tr> <th>Cable Type</th> <td>RG174</td> </tr> <tr> <th>Cable Length*</th> <td>1000 mm 2000 mm</td> </tr> </thead> </table>	Mounting Type	Magnetic Mount	Termination	SMA Plug	Dimensions	120xø27 mm	Op. Temp.	-30°C to +70°C	Cable Type	RG174	Cable Length*	1000 mm 2000 mm
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Cable Type	RG174																						
Cable Length*	1000 mm 2000 mm																						
Applications LMR for Public Safety	<table border="1"> <thead> <tr> <th>Polarization</th> <td>Linear</td> </tr> <tr> <th>Wavelength</th> <td>¼-λ</td> </tr> <tr> <th>Electrical Type</th> <td>Monopole</td> </tr> <tr> <th>Radiation Pattern</th> <td>Omni directional</td> </tr> <tr> <th>Impedance (Ohms)</th> <td>50</td> </tr> </thead> </table>	Polarization	Linear	Wavelength	¼-λ	Electrical Type	Monopole	Radiation Pattern	Omni directional	Impedance (Ohms)	50												
Polarization	Linear																						
Wavelength	¼-λ																						
Electrical Type	Monopole																						
Radiation Pattern	Omni directional																						
Impedance (Ohms)	50																						

Cellular LTE / 5G NR Frequency Band Guide

Band #	Uplink Band (MHz)	Downlink Band (MHz)	Overall Band (MHz)	Total Bandwidth	LTE-M	LTE NB-IoT	5G NB-IoT
(n)1	1920 — 1980	2110 — 2170	1920 — 2170	250	X	X	X
(n)2	1850 — 1910	1930 — 1990	1850 — 1990	140	X	X	X
(n)3	1710 — 1785	1805 — 1880	1710 — 1880	170	X	X	X
4	1710 — 1755	2110 — 2155	1710 — 2155	445	X	X	
(n)5	824 — 849	869 — 894	824 — 894	70	X	X	X
6	830 — 840	875 — 885	830 — 885	55			
(n)7	2500 — 2570	2620 — 2690	2500 — 2690	190	X	X	X
(n)8	880 — 915	925 — 960	880 — 960	80	X	X	X
9	1749.9 — 1784.9	1844.9 — 1879.9	1749.9 — 1879.9	130			
10	1710 — 1770	2110 — 2170	1710 — 2170	460			
11	1427.9 — 1447.9	1475.9 — 1495.9	1427.9 — 1495.9	68	X	X	
(n)12	699 — 716	729 — 746	699 — 746	47	X	X	X
(n)13	777 — 787	746 — 756	746 — 787	41	X	X	
(n)14	788 — 798	758 — 768	758 — 798	40	X	X	X
17	704 — 716	734 — 746	704 — 746	42		X	
(n)18	815 — 830	860 — 875	815 — 875	60	X	X	X
19	830 — 845	875 — 890	830 — 890	60	X	X	
(n)20	832 — 862	791 — 821	791 — 862	71	X	X	X
21	1447.9 — 1462.9	1495.9 — 1510.9	1447.9 — 1510.9	63	X	X	
22	3410 — 3490	3510 — 3590	3410 — 3590	180			
23	2000 — 2020	2180 — 2200	2000 — 2200	200			
(n)24	1626.5 — 1660.5	1525 — 1559	1525 — 1660.5	135.5	X	X	X
(n)25	1850 — 1915	1930 — 1995	1850 — 1995	145	X	X	X
(n)26	814 — 849	859 — 894	814 — 894	80	X	X	X
27	807 — 824	852 — 869	807 — 869	62	X		
(n)28	703 — 748	758 — 803	703 — 803	100	X	X	X
(n)29	N/A	717 — 728	717 — 728	11			
(n)30	2305 — 2315	2350 — 2360	2305 — 2360	55			
(n)31	452.5 — 457.5	462.5 — 467.5	452.5 — 467.5	15	X	X	X
32	N/A	1452 — 1496	1452 — 1496	44			
33	1900 — 1920	1900 — 1920	1900 — 1920	20			
(n)34	2010 — 2025	2010 — 2025	2010 — 2025	15			
35	1850 — 1910	1850 — 1910	1850 — 1910	60			
36	1930 — 1990	1930 — 1990	1930 — 1990	60			
37	1910 — 1930	1910 — 1930	1910 — 1930	20			
(n)38	2570 — 2620	2570 — 2620	2570 — 2620	50			
(n)39	1880 — 1920	1880 — 1920	1880 — 1920	40			
(n)40	2300 — 2400	2300 — 2400	2300 — 2400	100			
(n)41	2496 — 2690	2496 — 2690	2496 — 2690	194		X	X
42	3400 — 3600	3400 — 3600	3400 — 3600	200		X	
43	3600 — 3800	3600 — 3800	3600 — 3800	200		X	
44	703 — 803	703 — 803	703 — 803	100			
45	1447 — 1467	1447 — 1467	1447 — 1467	20			
(n)46	5150 — 5925	5150 — 5925	5150 — 5925	775			
47	5855 — 5925	5855 — 5925	5855 — 5925	70			

LTE: 3GPP TS 36.101 V18.6.0 (2024-06), 5G NR: 3GPP TS 38.104 V18.6.0 (2024-06)

Cellular LTE / 5G NR Frequency Band Guide

Band #	Uplink Band (MHz)	Downlink Band (MHz)	Overall Band (MHz)	Total Bandwidth	LTE-M	LTE NB-IoT	5G NB-IoT
(n)48	3550 — 3700	3550 — 3700	3550 — 3700	150		X	
49	3550 — 3700	3550 — 3700	3550 — 3700	150			
(n)50	1432 — 1517	1432 — 1517	1432 — 1517	85			
(n)51	1427 — 1432	1427 — 1432	1427 — 1432	5			
52	3300 — 3400	3300 — 3400	3300 — 3400	100			
(n)53	2483.5 — 2495	2483.5 — 2495	2483.5 — 2495	11.5			
(n)54	1670 — 1675	1670 — 1675	1670 — 1675	5	X	X	X
(n)65	1920 — 2010	2110 — 2200	1920 — 2200	280		X	X
(n)66	1710 — 1780	2110 — 2200	1710 — 2200	490	X	X	X
(n)67	N/A	738 — 758	738 — 758	20			
68	698 — 728	753 — 783	698 — 783	85			
69	N/A	2570 — 2620	2570 — 2620	50			
(n)70	1695 — 1710	1995 — 2020	1695 — 2020	325		X	X
(n)71	663 — 698	617 — 652	617 — 698	81	X	X	X
(n)72	451 — 456	461 — 466	451 — 466	15	X	X	X
73	450 — 455	460 — 465	450 — 465	15	X	X	
(n)74	1427 — 1470	1475 — 1518	1427 — 1518	91	X	X	X
(n)75	N/A	1432 — 1517	1432 — 1517	85			
(n)76	N/A	1427 — 1432	1427 — 1432	5			
n77	3300 — 4200	3300 — 4200	3300 — 4200	900			
n78	3300 — 3800	3300 — 3800	3300 — 3800	500			
n79	4400 — 5000	4400 — 5000	4400 — 5000	600			
n80	1710 — 1785	N/A	1710 — 1785	75			
n81	880 — 915	N/A	880 — 915	35			
n82	832 — 862	N/A	832 — 862	30			
n83	703 — 748	N/A	703 — 748	45			
n84	1920 — 1980	N/A	1920 — 1980	60			
(n)85	698 — 716	728 — 746	698 — 746	48	X	X	
n86	1710 — 1780	N/A	1710 — 1780	70			
87	410 — 415	420 — 425	410 — 425	15	X	X	
88	412 — 417	422 — 427	412 — 427	15	X	X	
n89	824 — 849	N/A	824 — 849	25			
n90	2496 — 2690	2496 — 2690	2496 — 2690	194			X
n91	832 — 862	1427 — 1432	832 — 1432	600			
n92	832 — 862	1432 — 1517	832 — 1517	685			
n93	880 — 915	1427 — 1432	880 — 1432	552			
n94	880 — 915	1432 — 1517	880 — 1517	637			
n95	2010 — 2025	N/A	2010 — 2025	15			
n96	5925 — 7125	5925 — 7125	5925 — 7125	1200			
n97	2300 — 2400	N/A	2300 — 2400	100			
n98	1880 — 1920	N/A	1880 — 1920	40			
n99	1626.5 — 1660.5	N/A	1626.5 — 1660.5	34			
n100	874.4 — 880	919.4 — 925	874.4 — 925	50.6			
n101	1900 — 1910	1900 — 1910	1900 — 1910	10			
n102	5925 — 6425	5925 — 6425	5925 — 6425	500			

LTE: 3GPP TS 36.101 V18.6.0 (2024-06), 5G NR: 3GPP TS 38.104 V18.6.0 (2024-06)

Cellular LTE / 5G NR Frequency Band Guide

Band #	Uplink Band (MHz)	Downlink Band (MHz)	Overall Band (MHz)	Total Bandwidth	LTE-M	LTE NB-IoT	5G NB-IoT
103	787 – 788	757 – 758	757 – 788	31		X	
n104	6425 – 7125	6425 – 7125	6425 – 7125	700			
n105	663 – 703	612 – 652	612 – 703	91			
(n)106	896 – 901	935 – 940	896 – 940	44	X	X	
n109	703 – 733	1432 – 1517	703 – 1517	814			

LTE-only Bands

5G NR-only Bands

Both LTE and 5G NR Bands

LTE: 3GPP TS 36.101 V18.6.0 (2024-06), 5G NR: 3GPP TS 38.104 V18.6.0 (2024-06)

GNSS Frequency Band Guide

GNSS Constellations and Frequency Bands

As of 2025, there are 4 Global Navigation Satellite System (GNSS) in operation as shown in **Figure 1**. United States' GPS (Global Positioning System), European Union's Galileo system, Russia's Glonass and China's BeiDou/Compass system. Satellite-Based Augmentation System (SBAS) are designed to enhance the accuracy of GPS, including Japan's QZSS (Quasi-Zenith Satellite System), India's GAGAN and European EGNOS. IRNSS (Indian Regional Navigation Satellite System) operationally also known as NavIC is a stand alone Regional Navigation Satellite System (RNSS).

GNSS Frequency Bands					
GPS	L1	L2	L5		
	1575.42 MHz	1227.6 MHz	1176.45 MHz		
Galileo	E1	E5a	E5b	E6	
	1575.42 MHz	1176.45 MHz	1207.14 MHz	1278.75 MHz	
Glonass	G1	G2	G3		
	1602 MHz	1246 MHz	1202 MHz		
BeiDou (Compass)	B1	B1C	B2a	B2b	B3
	1561 MHz	1575.42 MHz	1176.45 MHz	1207.14 MHz	1268.52 MHz
QZSS	L1	L2	L5	L6	
	1575.42 MHz	1227.6 MHz	1176.45 MHz	1278.75 MHz	
SBAS	L1/E1/B1C	L5/E5a/B2a	G1	G2	G3
	1575.42 MHz	1176.45 MHz	1602 MHz	1246 MHz	1202 MHz
IRNSS (NavIC)	L5				
	1176.45 MHz				

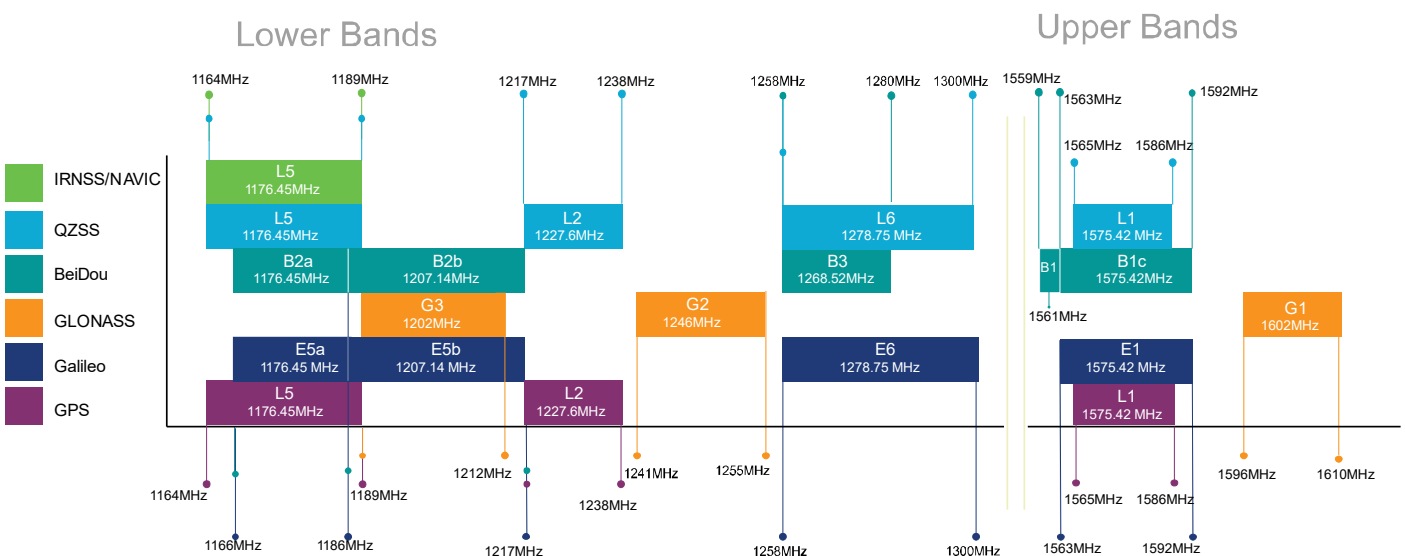


Figure 1. GNSS Frequency Bands