

承認書

APPROVAL SHEET

CUSTOMER: MAP ELECTRONICS CO.,LTD

CUSTOMER MODEL NO.: MEGWX-282XSAXX-920

DESCRIPTION: #282X Replacement Antenna

REV: A

DATE: 2022/11/25

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for reference only

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Modification History:

Rev.	Date	Content
A	2022/11/25	



1. Specification & Dimension

4	3	2	1
	REV	ZONE	DESCRIPTION

ECN NO.	ENG	APPROVED	DATE

SMA PLUG

Electrical Properties	
Frequency Range	900~940 MHz
Impedance	50Ω
V.S.W.R.	≤2.0
Radiation	Omni
Gain	2.5 dBi
Peak Gain	2.65dBi
Polarization	Vertical
Wave Length , type	1/4λ, Whip
Beam Width(±3dB)	170 °@E-Plane 360°@H-Plane
Test Ground Size	115*65*30mm

Mechanical Properties	
Radome Material	TPE
Connector Type	SMA PLUG
IP Level	IP-65
Dimension	L=84mm
Weight	8 g (est)
Operating Temp.	-20℃ ~ +65℃
Storage Temp.	-30℃ ~ +70℃

UNLESS OTHERWISE SPECIFIED TOLERANCES ON: X ± 1 X.X ± 0.5 X.XX ± 0.25 ANG. ± 2.0° THIRD ANGLE PROJECTION	DRAWN BY: Olivia	MATERIAL:	TITLE : #282X Replacement Antenna
	DESIGNED BY: Ken	FINISH:	DRAW NO. :
	CHECKED BY: SARA,KY	SCALE:1/1;UNIT:mm	PART NO. : MEGWX-282XSAXX-920
	APPROVED BY: Matt	DATE: 2022/11/21	
		REV: A	

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Connector**SMA**

Specification Data	1) Impedance	50 ohm
	2) Frequency Range	0~6GHz
	3) V.S.W.R.	≤ 1.5
	4) Working Voltage	≤ 250 Vrms
	5) Dielectric Withstanding	≤ 670 Vrms
	6) Voltage Insulation Resistance	≥ 2000 Mega ohm
	7) Contact Resistance	Center contact: 3.0 Milliohms (Max.) Outer contact: 2.0 Milliohms (Max.)
	8) Recommended coupling nut torque	4.0~8.8 in. lbs (0.45~0.99Nm)
	9) Coupling nut retention force	≥ 50 lbs (222N)
	10) Contact captivation force	≥ 5 lbs (22.2N)
	11) Durability (mating)	≥ 500 cycles

Environmental Data	1) Operating Temperature	- 65°C ~ + 165°C
	2) Thermal Shock	MIL-STD-202,Method 107, Condition B
	3) Corrosion	MIL-STD-202,Method 101, Condition B
	4) Shock	MIL-STD-202,Method 213, Condition I
	5) Vibration	MIL-STD-202,Method 204, Condition D
	6) Moisture Resistance	MIL-STD-202,Method 106

Material Specifications	Material Data		Material	
	1) Body		Brass	
	2) Contact		Brass	
	3) Insulator		Teflon or Delrin	

2. Test Condition & Report

2.1 V.S.W.R

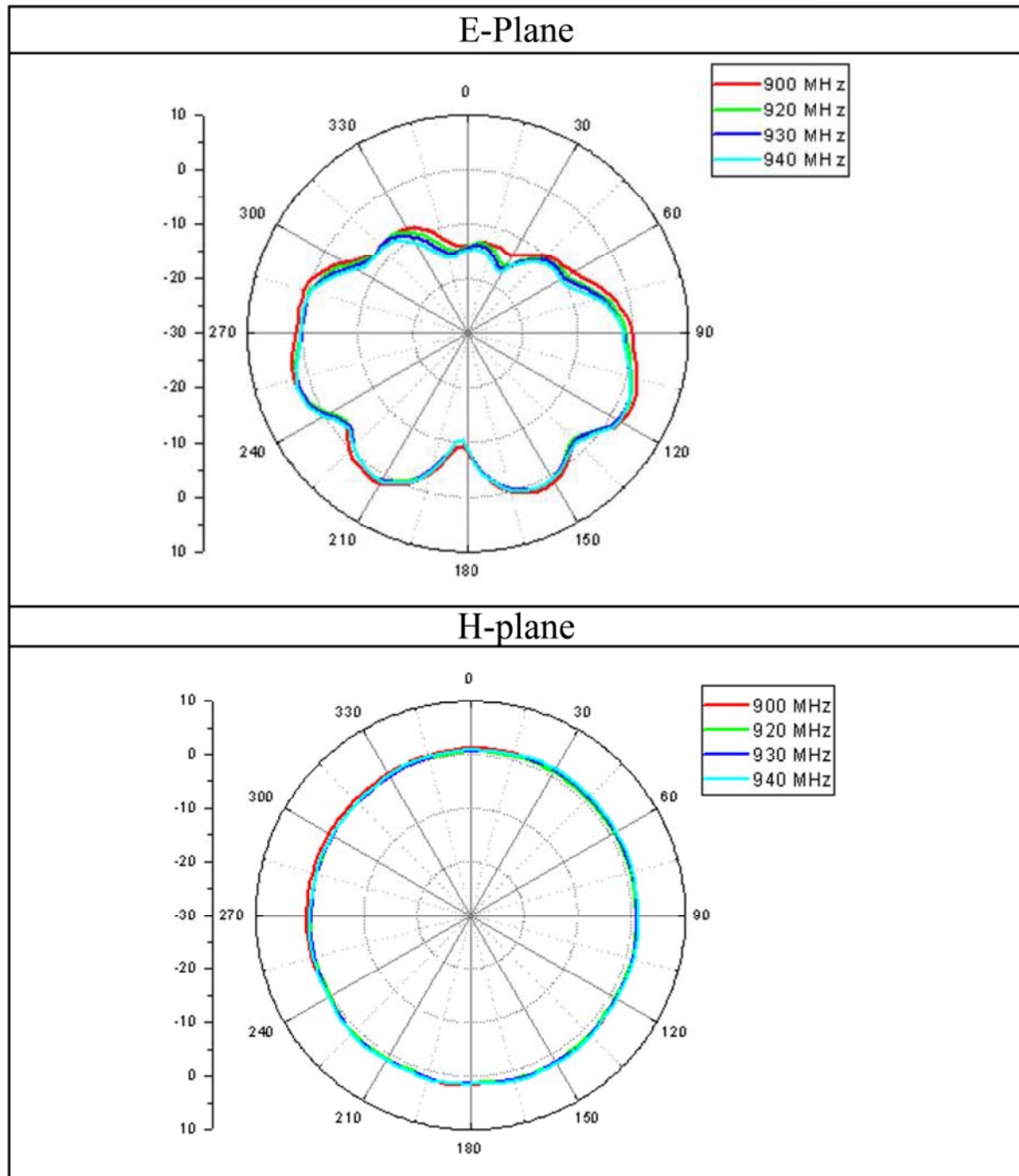


Test Configuration



2. Test Condition & Report

2.2 2D Radiation Pattern



	900	920	930	940
E	2.65	2.17	2.26	2.48
H	1.76	1.66	1.8	1.92

for reference only

Pattern Test Equipment

Anechoic chamber: 100MHz~6GHz 8*6*6m (※ 1m Quiet zone at 800MHz)

Source Antenna: ETS-3164 Dual Polarized Horn

Network Analyzer: Agilent E5071B 100kHz~8.5GHz

