承 認 書

APPROVAL SHEET

Customer Approval	



for reference only

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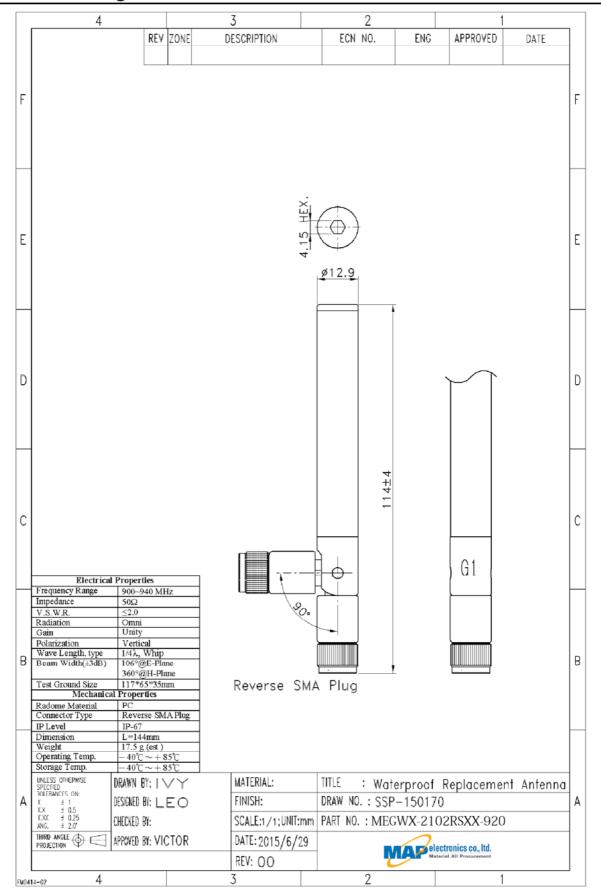
Modification History:

Rev.	Date	Content
00	2015/6/29	



1. Specification

1.1 Drawing



1. Specification

1.1 Drawing

Electrical Properties		
Frequency Range	900~940 MHz	
Impedance	50Ω	
V.S.W.R.	≤2.0	
Radiation	Omni	
Gain	Unity	
Polarization	Vertical	
Wave Length, type	1/4λ, Whip	
Beam Width(±3dB)	106°@E-Plane	
	360°@H-Plane	
Test Ground Size	117*65*35mm	
Mechanical Properties		
Radome Material	PC	
Connector Type	Reverse SMA Plug	
IP Level	IP-67	
Dimension	L=144mm	
Weight	17.5 g (est)	
Operating Temp.	-40° C \sim $+85^{\circ}$ C	
Storage Temp.	-40°C ~+85°C	



1.2 Connector

SMA

Specification	1) Impedance	50 ohm 0~6GHz	
Data	2) Frequency Range		
	3) V.S.W.R.	≦1.5	
	4) Working Voltage	≦250 Vrms	
	5) Dielectric Withstanding	≤670Vrms	
	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. 1bs (0.45~0.99Nm)	
	9) Coupling nut retention force	≥50 1bs (222N)	
	10) Contact captivation force	≥5 1bs (22.2N)	
	11) Durability (mating)	≥500 cycles	
Environmental	1	-65°C ~ +165°C	
Data	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	Material Data	Material	
Specifications	1) Body	Brass	
	2) Contact	Brass	
	3) Insulator	Teflon or Delrin	

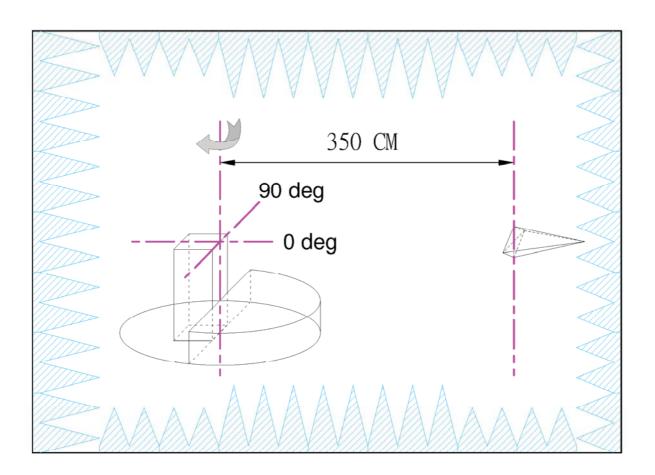


2.1 Electrical test

Return loss 1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State FIRE S11 Log Mag 10.00dB/ Ref 0.000dB [R0] 50.00 1 900.00000 MHz -13.791 dB 2 920.00000 MHz -15.097 dB >3 940.00000 MHz -11.877 dB 40.00 30.00 20.00 10.00 0.000 -10.00 -20.00 -30.00 -40.00 -50.00 V.S.W.R. Tr2 S11 SWR 1.000/ Ref 1.000 [RO] 11.00 1 900,00000 MHz 1.5147 2 920,00000 MHz 1.4270 >3 940.00000 MHz 1.6840 10.00 9.000 8.000 7.000 6.000 5.000 4.000 3.000 2.000 1.000 44 1 Start 600 MHz IFBW 70 kHz Stop 1.3 GHz Cor Hold Stop ExtRef Ready S 2015-06-26 15:03 BBB

electronics co., ltd.

Material All Procurement



Test Equipment

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

Soure Antenna: ETS-3164 Dual Polarized Horn Network Analyzer: Agilent E5071B 100kHz~8.5GHz



