

承 認 書

APPROVAL SHEET

CUSTOMER: MAP ELECTRONICS CO., LTD

CUSTOMER MODEL NO.: MEGAF-126XSA1X-920

DESCRIPTION #126X Mini-Magnetic Antenna

REV.: 01

DATE 2013/12/4

Customer Approval	
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For Reference Only

Index.

Item

1. Drawing

2. Test report

- Electrical test
 - Pattern test
-

3. Specification

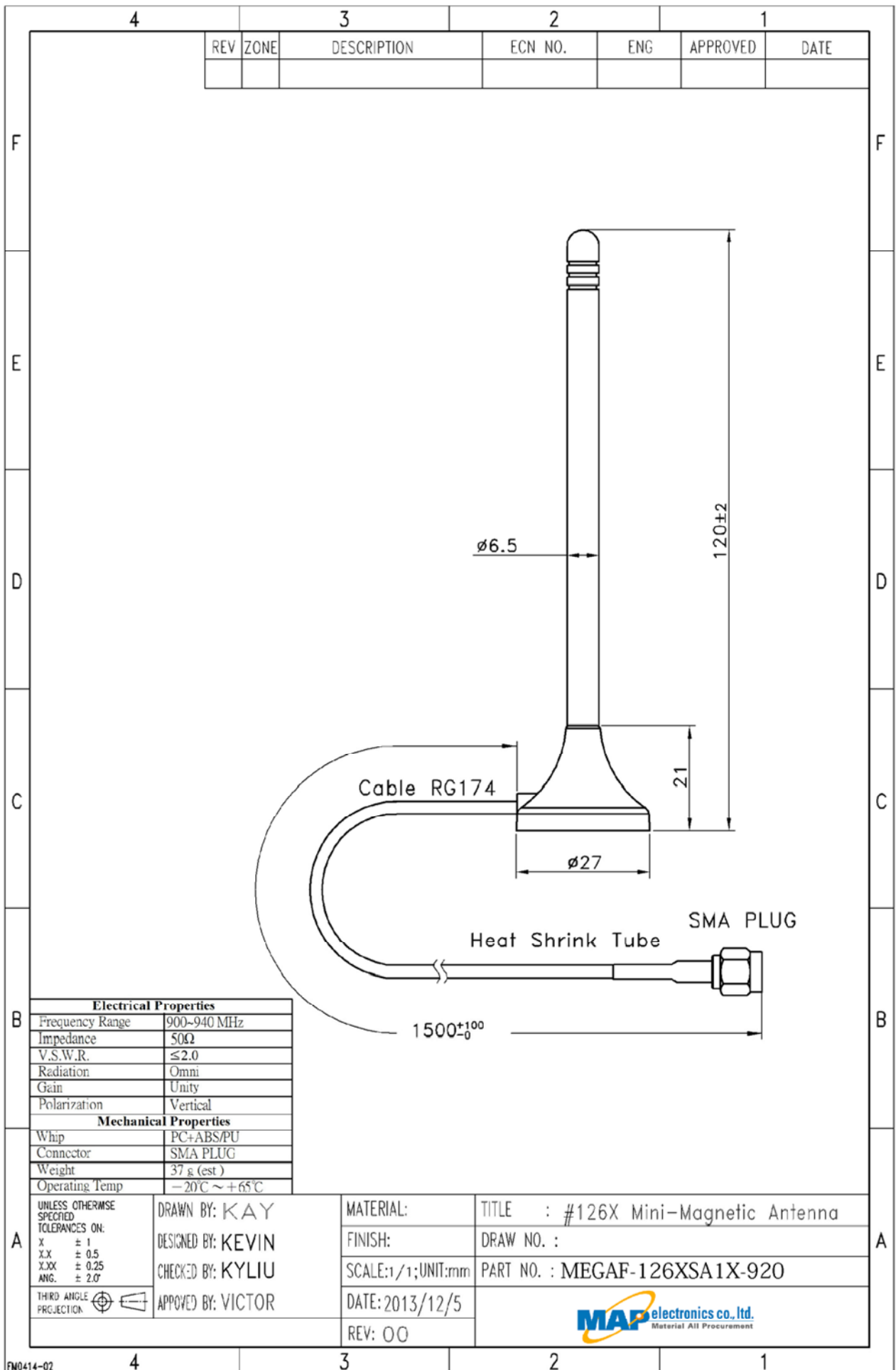
- Connector
 - Cable
-

4. Packing

- PE Bag
 - Carton
-

Modification History:

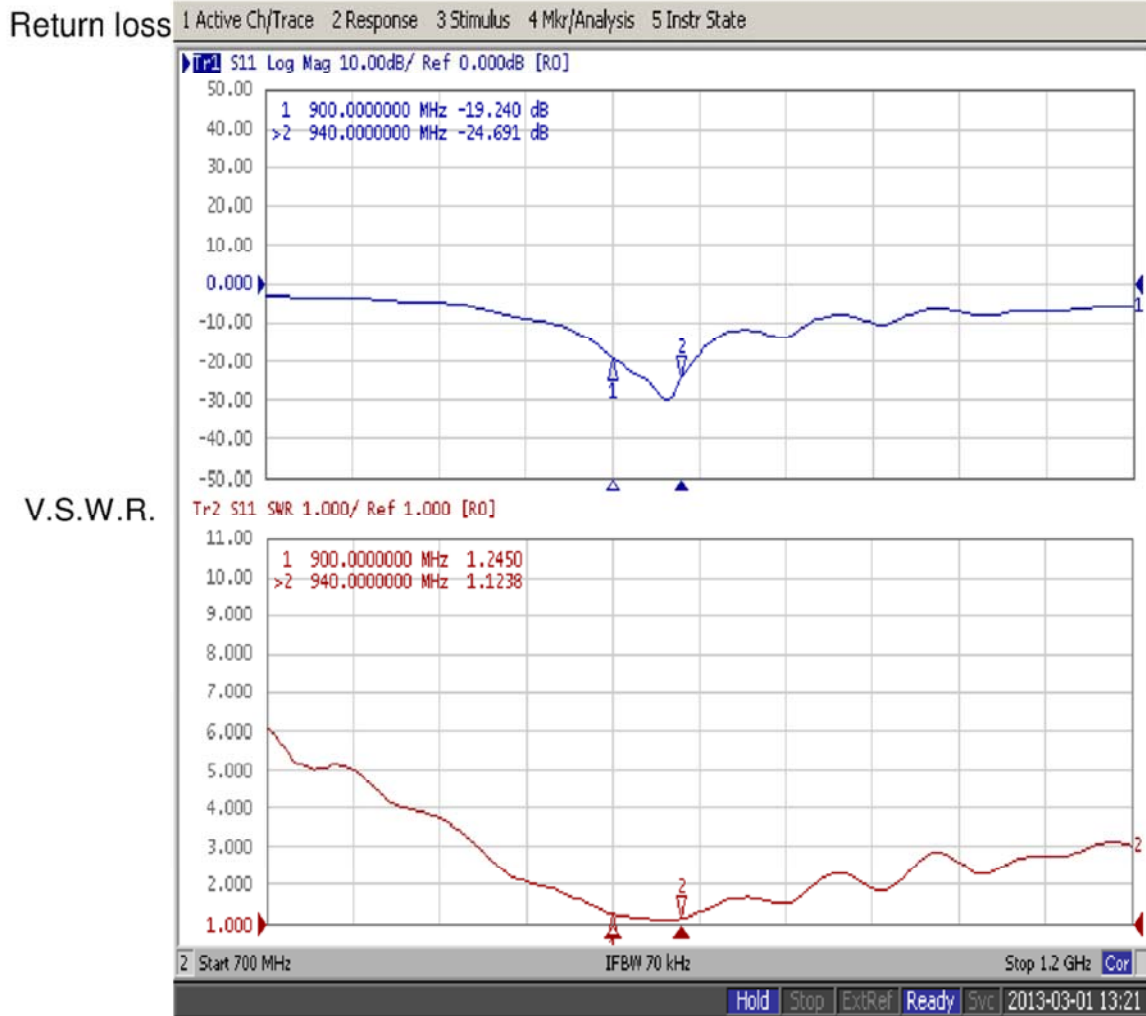
Rev.	Date	Content
00	2013/3/22	
01	2013/12/4	變更重量



Model. MEGAF-126XSA1X-920

Test Report

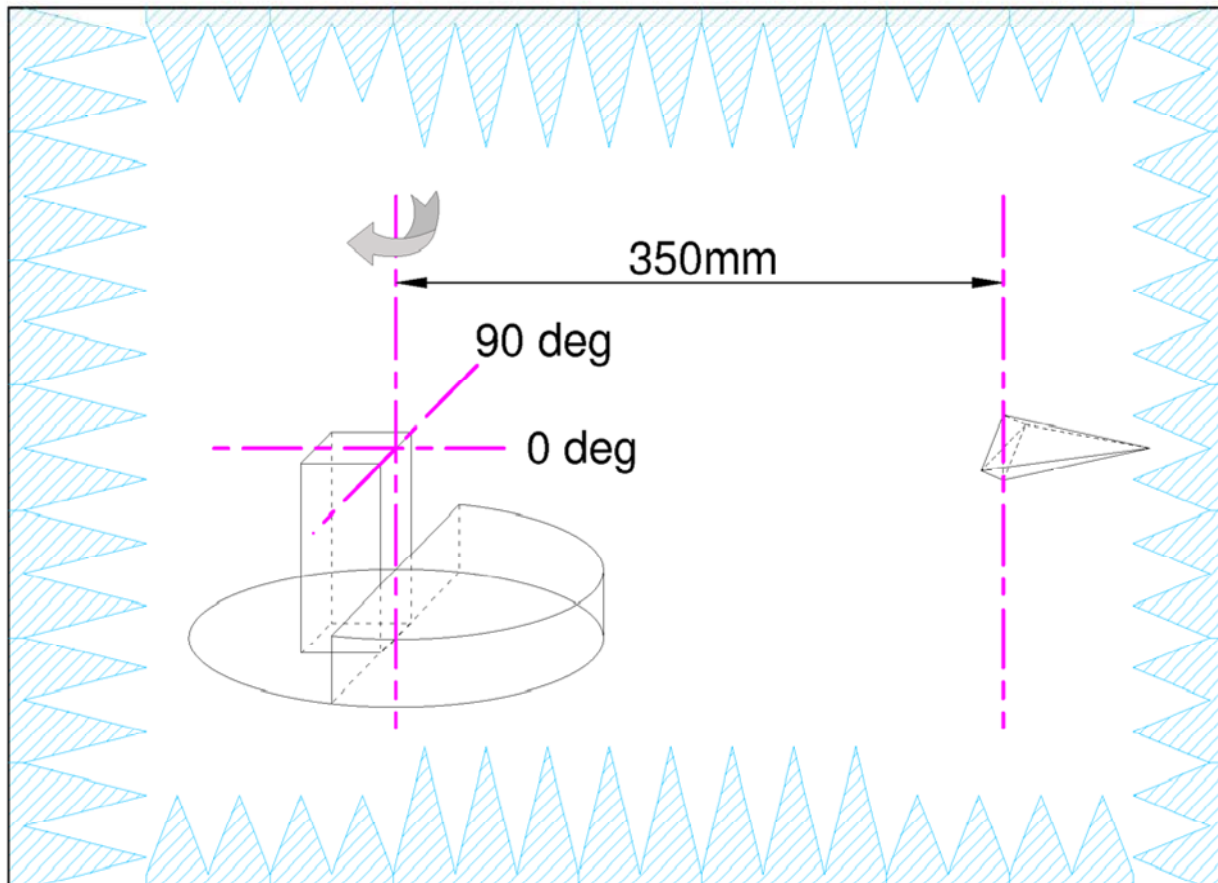
Return loss/V.S.W.R



Model. MEGAF-126XSA1X-920

2D Patten Test Instrument

Pattern Test



Test Equipment

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

Source Antenna: ETS-3164 Dual Polarized Horn

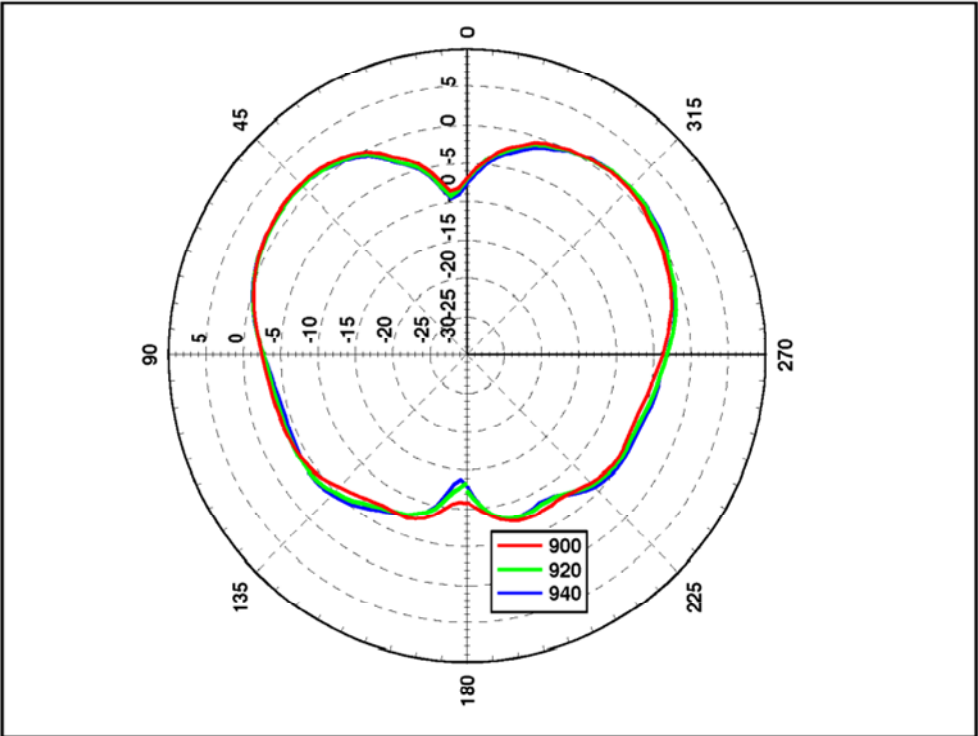
Network Analyzer: Agilent E5071B 100kHz~8.5GHz

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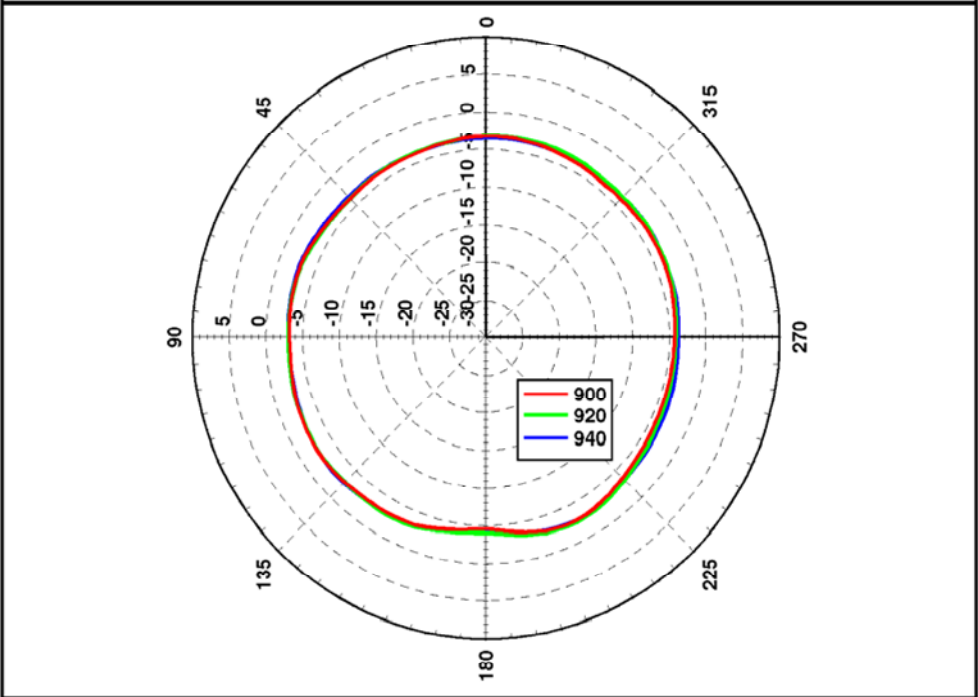
2D Patterns

Pattern Test

E-plane



H-plane



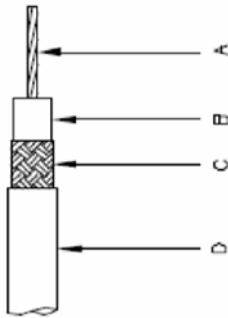
*TEST with 500 mm * 500 mm ground plane

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	$-65^{\circ}\text{C} \sim +165^{\circ}\text{C}$
	2) Thermal Shock	MIL-STD-202,Method 107, Condition E
	3) Corrosion	MIL-STD-202,Method 101, Condition E
	4) Shock	MIL-STD-202,Method 213, Condition I
	5) Vibration	MIL-STD-202,Method 204, Condition I
	6) Moisture Resistance	MIL-STD-202,Method 106

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



Construction:

- A) Center Conductor:
Composition 7/0.16mm
Copper Covered Steel Wire
OD 0.49mm
- B) Dielectric:
Solid Polyethylene
OD 1.48±0.02mm
- C) Shield:
Tinned Copper Wire
Construction 16x5/0.1mm
Coverage 95%
OD 1.58±0.008mm
- D) Jacket:
PVC
OD 2.8±0.05mm

Electricals:

- Impedance: 50±3 Ohms
- Insulation Resistance: 1000↑ MΩ/km
- Capacitance: 101±3 pF/M

Physical Properties:

- Weight: 1.4kg/100m (egt)
- Minimum Bend Radius: 30mm
- Operating Temperature Range: 60°C
- Conductor BRead Strength 40kg

Nom. Attenuation

Frequency	dB/100m
100MHz	29.46
400MHz	63.09
800MHz	92.17
1GHz	103.97
2GHz	153.81
3GHz	194.88
4GHz	232.83
5GHz	273.13
6GHz	312.42