

CUSTOMER: MAP ELECTRONICS CO., LTD

CUSTOMER MODEL NO.: MEGAF-121XSAXX-920

DESCRIPTION #121X Mini-Magnetic Antenna

DATE 2013/6/25

Customer Approval	



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Item

1. Drawing

2. Test report

Electrical test

3. Specification

- Cable
- Connector

4. Packing

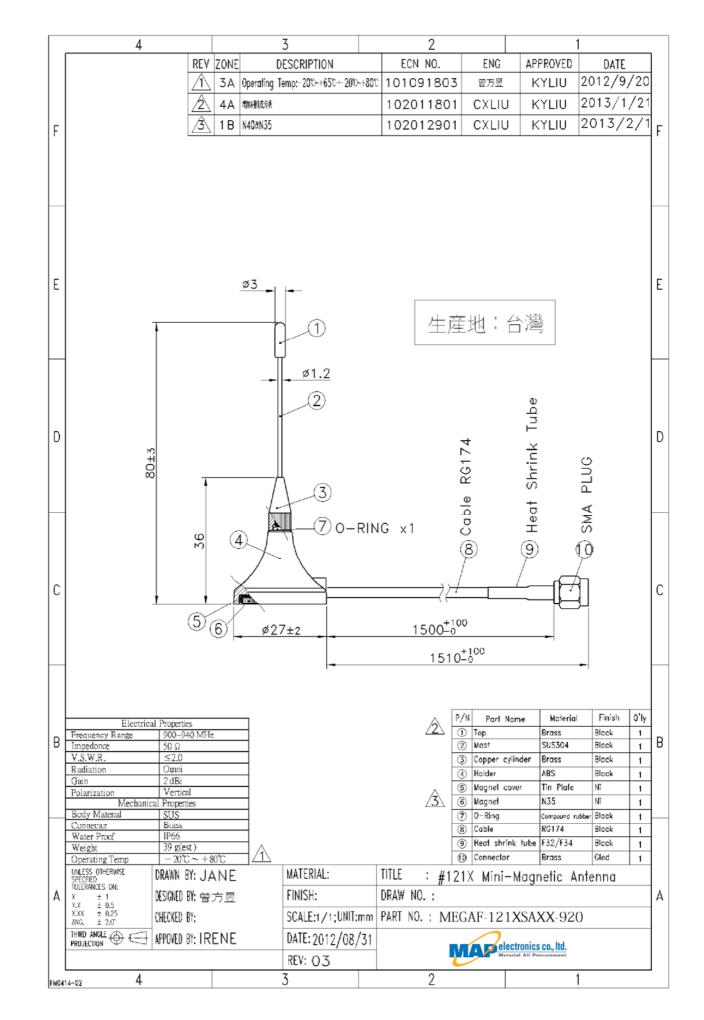
- · PE Bag
- · Carton
- 5. 可靠度測試報告
 - ・高溫實驗

Modification History:

for reference only

electronics co., ltd. Material All Procurement

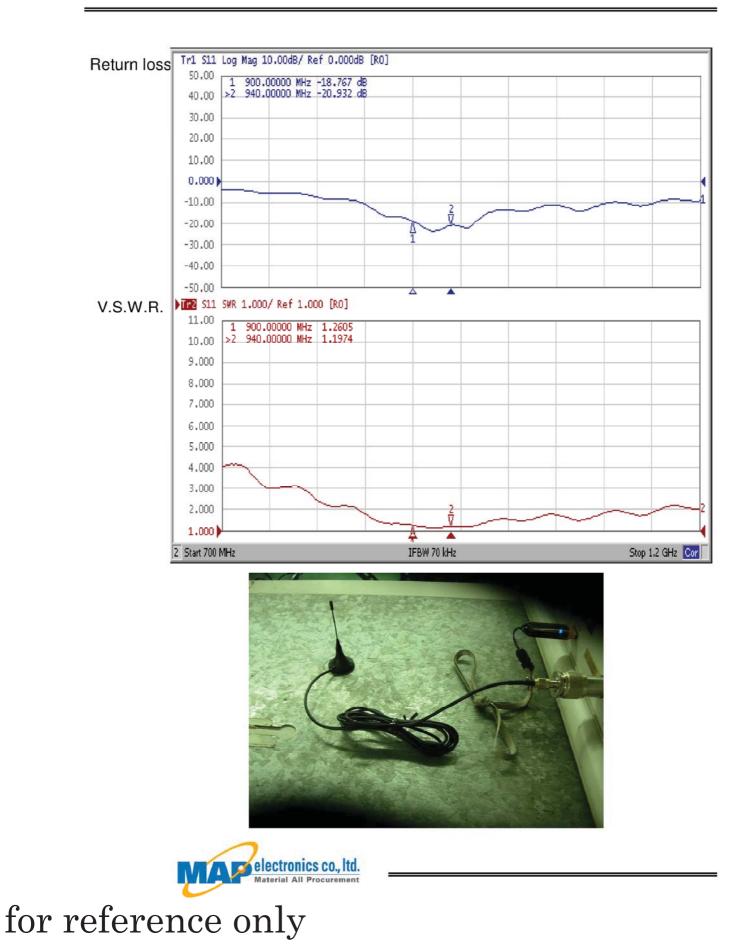
Rev.	Date	Content
00	2012/8/30	
01	2012/9/20	Operating Temp: $-20^{\circ}\text{C} \sim +65^{\circ}\text{C} \rightarrow -20^{\circ}\text{C} \sim +80^{\circ}\text{C}$
02	2012/10/11	新增可靠度測試報告
03	2012/11/12	新增規格
04	2013/2/1	新增生產地&材料成分表
05	2013/6/25	增加Pattern



Model. MEGAF-121XSAXX-920

Test Report

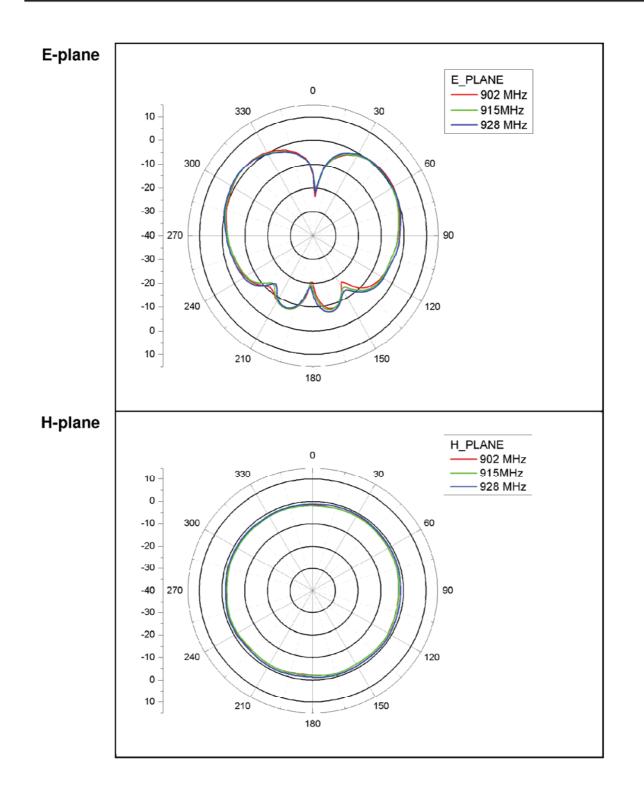
Return loss/V.S.W.R



Model. MEGAF-121XSAXX-920

2D Patterns

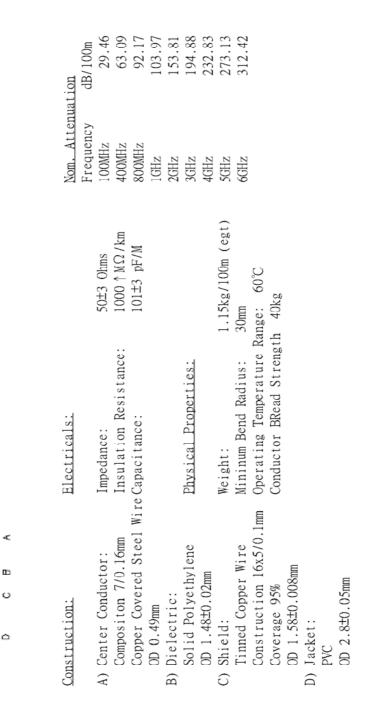
Pattern Test





Cable

RG174/U





Connector

SMA

Specification	1) Impedance	50 ohm	
Data	2) Frequency Range	0~6GHz	
	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)	\geq 500 cycles	
	1) Operating Temperature	$-65^{\circ}\text{C} \sim +165^{\circ}\text{C}$	
Data	 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 E	
	6) Moisture Resistance	MIL-STD-202, Method 106	
Material	Material Data	Material	
Specifications	1) Body	Brass	
	2) Contact	Brass	
	3) Insulator	Teflon or Delrin	

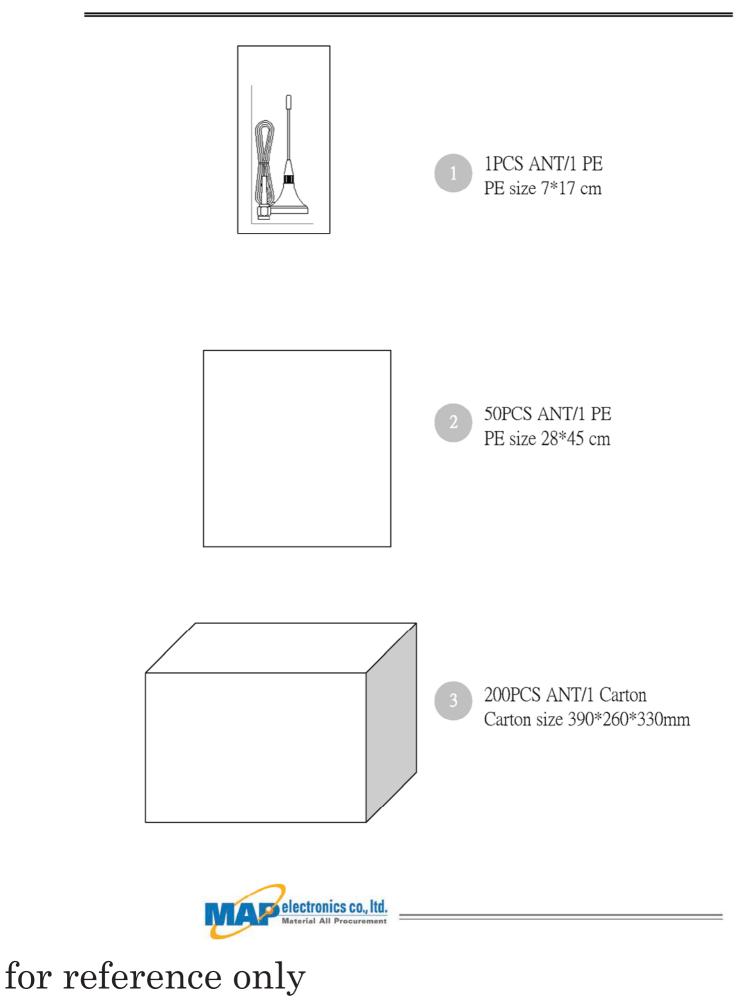


Model. MEGAF-121XSAXX-920

Specification

Terretoria	20%0 20%0	
Temperature	<u>-20</u> °C ~ 80°C	
Storage Temperature	<u>-40°C ~ 70°C</u>	
Use humidity	10~85%	
Save humidity	5~95%	
Customer assembly	The magnet mount must adsorption on a clean and	
conditions	flat metal	
Reliability test items		
	A.Temperature range: -30~70°C	
The area = 1 C = -1 T = -i	B.Temperature conversion: high and low	
-Thermal Shock Test	temperature conversion need to be completed within	
	C.Time: 1 hour each stay, a total of 7 cycles	
	A.Temperature range: -30~70°C	
	B.Humidity: high temperature95~98%	
-Temperature and	C.Temperature conversion: high and low	
humidity cycling test	temperature conversion completed in 60 minutes	
	D.Time: 1 hour high and low temperature each stop,	
	a total of 7 cycle	
-Swing test	Test conditions: on-line load from the joint 30CM 200g, will be fixed after the swing joint test, swing around the 60 degree angle, swing after the 1000 time review and testing of electrical characteristics of the appearance	
-Tensile testing	Test conditions: a connector fixed on the tension meter, the Hand wire, pull to 7kgf, view the connector and the cables and testing electrical characteristics	
	Test Conditions :	
-Magnets strength	Magnets power required>1 kgf	
test	Magnets strength test for 5 times, the magnet can	
	not fall off	
	Company:SMART SHOW GROUP L.L.C.	
Producer	Address: Yong Town, Shenzhen, Guangdong Road,	
	Hing Wai Industrial Zone II	





報告編號:QE120917-03

日 期:2012/09/17

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可靠度測試報告

RELIABILITY TEST REPORT

產品名稱:Antenna

產品型號:GAF-121XSA1X-350

測試數量:2 PCS

測試時間:2012/09/13 14:30 完成時間:2012/09/14 14:30

測試項目:高溫寶驗

測試條件:高溫測試80°C,歷時24小時

測試標準 外觀無變形、電氣 VSWR≦2.0

測試結果

PASS

附記:

- 測試報告係提供表列機種相關測試執行之條件與過程,藉以提出客觀數據化結果,作為客戶(廠商) 憑證。
- 2. 本測試報告共 4 頁(含附件),分開使用無效。
- 3. 檢附相關過程相片及圖表

Approving by:劉冠纓

Test Engineer:鄭隆和

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測試報告

1. 試驗設備:

1-1. 電氣熱風循環式乾燥機(型號: RHD-452)



2. 試驗環境:

2-1. 試驗溫度 80±5℃

3. 實驗條件:

3-1. 高溫測試 80°C, 歷時 24 小時

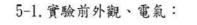
4. 實驗結果:

4-1. 高溫測試 80°C, 歷時 24 小時, 外觀無變形、電氣 VSWR VSWR≦2.0

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5. 附圖:







NO:2



5-1. 實驗中:



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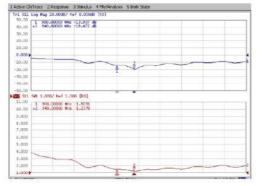




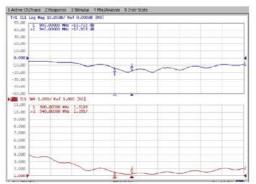




NO:1



NO:2



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