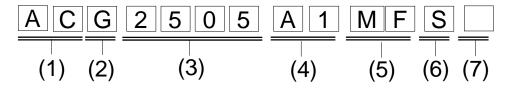
ISM Band Chip Antenna For ACG-2505-A1-MF-S

1. Explanation of Part Number :



- (1) Product Type: Chip Antenna
- (2) Center Frequency/Band Code: G-ISM Band (858~870MHz)
- (3) Size Code: 25.0mm(length) x 5.0mm(width)
- (4) Design Revision Code: A1= Rev. 1
- (5) Series No.: MF=Monopole FR4
- (6) Special Code: S= RoHS Compliant
- (7) Suffix For Special Requirements

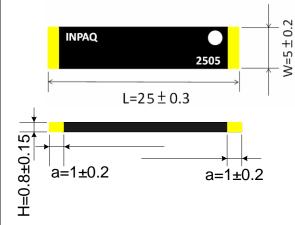
2. Electrical Specification :

Electrical Specification			
Frequency Band	858 ~ 870MHz		
Polarization	Linear		
Patten	Omni-Directional		
Reef Impedance	50 ohm		
Size	25mmx5.0mmx0.8mm		
Peak Gain	2 dBi Typ.		
Average Gain	-3.4 dBi Typ		

* Test condition: Test board size 80*50mm

Matching circuit: Pi matching circuit will be required

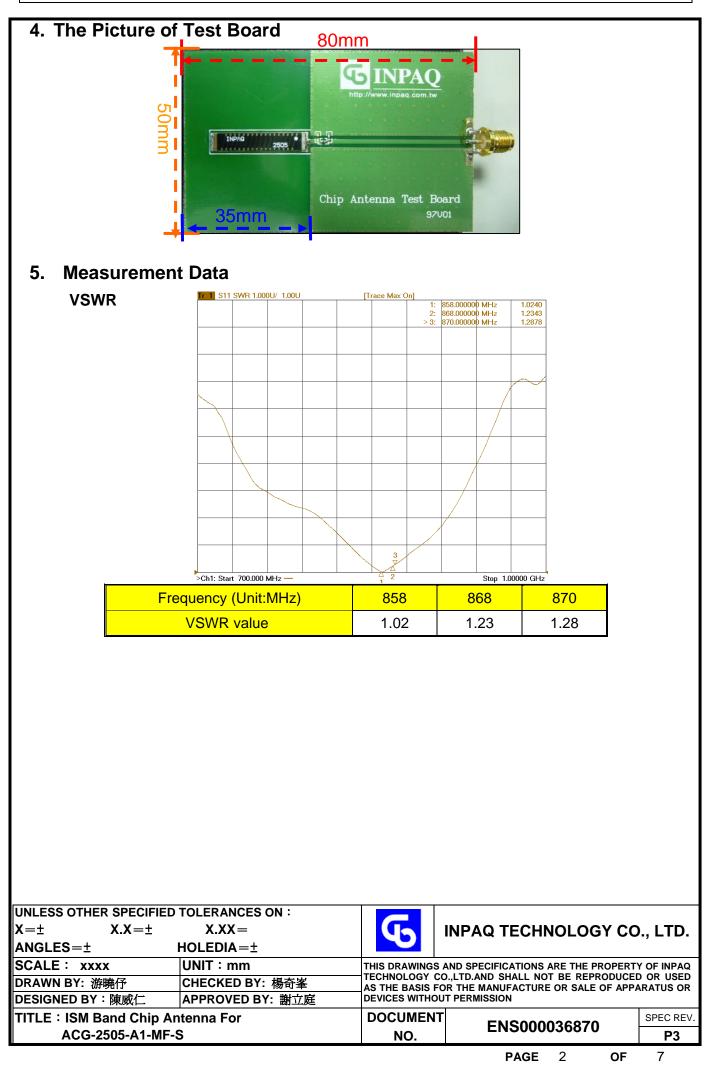
3. Dimensions: (unit: mm)

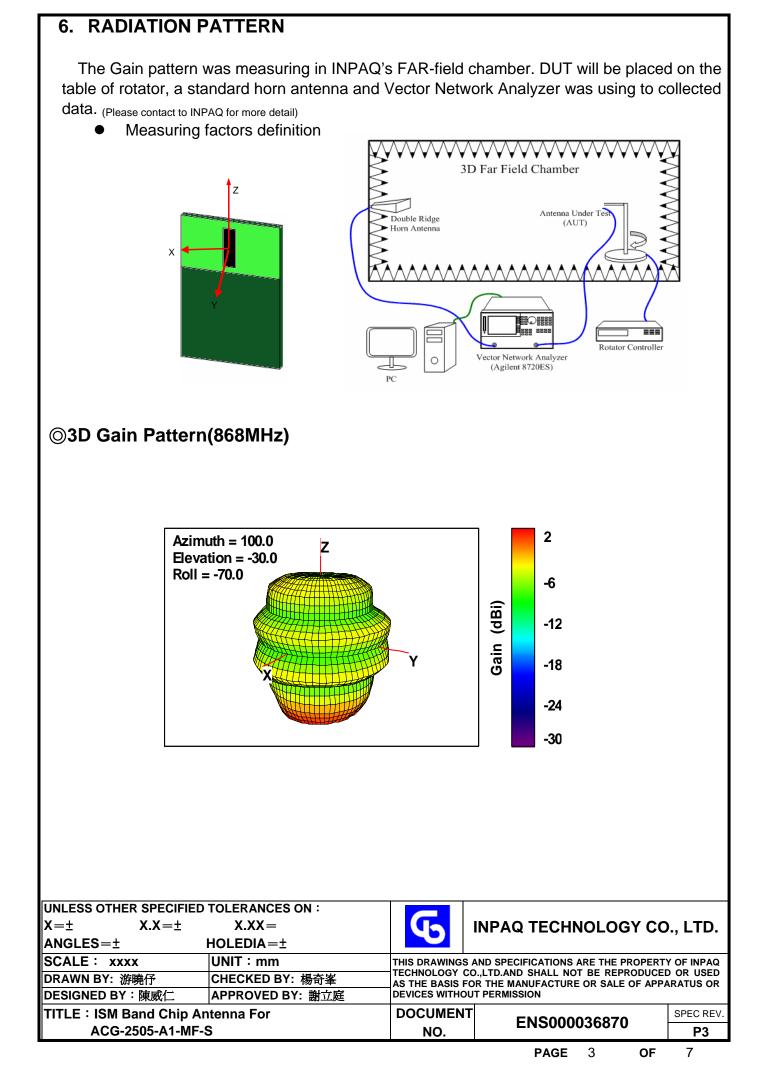


Mark	L	W	Н	а
Dimensions	25.0±0.3	5.0±0.2	0.8±0.15	1.0±0.2

UNLESS OTHER SPECIFIED X=± X.X=± ANGLES=±	D TOLERANCES ON : X.XX= HOLEDIA=±	G	INPAQ TECHN	OLOGY	со	., LTD.
SCALE: XXXX	UNIT : mm		AND SPECIFICATIONS AF			
DRAWN BY: 游曉仔	CHECKED BY: 楊奇峯		TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATU			
DESIGNED BY:陳威仁	APPROVED BY: 謝立庭	DEVICES WITHOUT PERMISSION				
TITLE : ISM Band Chip A	ntenna For	DOCUMEN [®]		26070		SPEC REV.
ACG-2505-A1-MF	-S	ENS000036870		P3		
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2013/03/22





2013/03/22

7.Environmental Performance

(1) Reliability Test

Item	Condition	Specification
Thermal shock	 30±3 minutes at -40°C±3°C, Convert to +85°C (5 minutes) 30±3 minutes at +85°C±3°C, Convert to -40°C (5 minutes) Total 1000 continuous cycles 	No apparent damage Fulfill the electrical spec. after test.
Humidity resistance	 Humidity: 85% R.H. Temperature: 85±2°C Time: 1000 hours. 	No apparent damage Fulfill the electrical spec. after test.
High temperature resistance	 Temperature: 85°C±2°C Time: 1000 hours. 	No apparent damage Fulfill the electrical spec. after test.
Low temperature resistance	 Temperature: -40°C±2°C Time: 1000 hours. 	No apparent damage Fulfill the electrical spec. after test.
Soldering heat resistance	 Solder bath temperature : 260±5°C Bathing time: 10±1 seconds 	No apparent damage
Solderability	The dipped surface of the terminal shall be at least 75% covered with solder after dipped in solder bath of 245±5 °C for 3±1 seconds.	No apparent damage

(2) Storage condition

(a) At warehouse:

The temperature should be within $0 \sim 30^{\circ}$ C and humidity should be less than 75% RH. The product should be used within 6 months from the time of delivery.

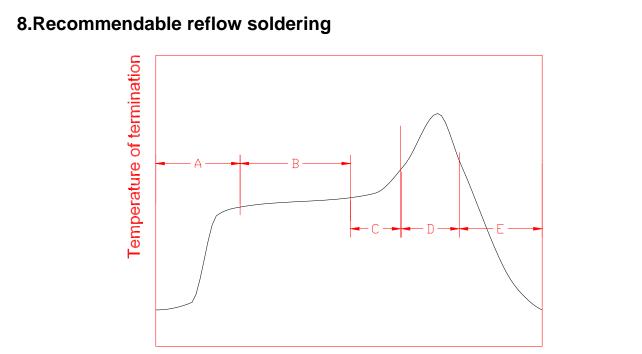
(b) On board:

The temperature should be within -40~85 $^\circ C$ and humidity should be less than 85% RH.

(3) Operating temperature range

Operating temperature range : -40 $^\circ\!\mathrm{C}$ to +85 $^\circ\!\mathrm{C}$.

UNLESS OTHER SPECIFIED X=± X.X=± ANGLES=±	D TOLERANCES ON : X.XX= HOLEDIA=±	G	INPAQ TECHNOLOGY CO	., LTD.	
SCALE: xxxx DRAWN BY: 游曉伃 DESIGNED BY:陳威仁	UNIT:mm CHECKED BY: 楊奇峯 APPROVED BY: 謝立庭	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INP/ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USE AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS (DEVICES WITHOUT PERMISSION			
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			PAGE 4 OF	7	



Time

А	A 1 st rising temperature	1 st rising temperature		30s to 60s
		temperature	303 10 003	
В	Preheating	140°C to 160°C	60s to 120s	
С	2 nd rising temperature Preheating to 200°C		20s to 40s	
		if 220 °C	50s~60s	
		if 230 °C	40s~50s	
D	Main heating	if 240 °C	30s~40s	
		if 250°C	20s~40s	
		if 260 °C	20s~40s	
Е	Regular cooling	200°C to 100°C	1° C/s ~ 4° C/s	

(1) Soldering gun procedure

Note the follows, in case of using solder gun for replacement.

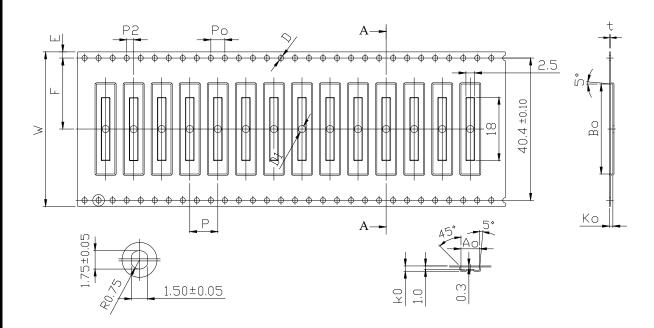
- (a) The tip temperature must be less than 380°C for the period within 3 seconds by using soldering gun under 30 W.
- (b) The soldering gun tip shall not touch this product directly.

(2) Soldering volume

Note that excess of soldering volume will easily get crack the body of this Product.

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ACG-2505-A1-MF	-S	NO. ENS000036870			P3		
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9. Carry tape



Item	Specifications	tolerance
W	44.00	±0.30
Р	8.00	±0.10
E	1.75	±0.10
F	20.20	±0.10
P2	2.00	±0.10
D	1.50	+0.10 - 0.00
D1	2.00	±0.10
Po	4.00	±0.10
10Po	40.00	±0.20
Ao	5.40	±0.10
Во	20.50	±0.10
Ко	1.10	±0.10
t	0.30	±0.05

- (1) sprocket hole pitch cumulative tolerance ± 0.20 mm.
- (2) Carrier camber not to exceed 1mm in 250mm.
- (3) Ao and Bo measured on a plane 0.3mm above the bottom of the pocket.
- (4) Ko measured from a plane on the inside bottom of the pocket to the top surface of the carrier.

UNLESS OTHER SPECIFIED	TOLERANCES ON :				
$X=\pm$ $X.X=\pm$	X.XX=	G	INPAQ TECHNOLOGY CO., LTD.		
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ACG-2505-A1-MF-	S	NO.	P3		
			PAGE 6 OF 7		

- (5) All dimensions meet EIA-481-B requirements
- (6) Material:
 Clear Non Anti-Static Polystyrene.
 - Black Anti-Static Polystyrene.
- (7) Packing length per 13" reel: 32.6Meters.
- (8) Component load per 13" reel : 2000 Pcs

UNLESS OTHER SPECIFIED	D TOLERANCES ON :							
X=± X.X=±	X.XX=		INPAQ TECHNOLOGY CO.,				., LTD.	
ANGLES=±	HOLEDIA=±							·
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