

ACG-2455-A1-MF-S

1. Explanation of Part Number :

$\frac{AC}{(1)} \frac{G}{(2)} - \frac{2455}{(3)} \frac{A1}{(4)} - \frac{MF}{(5)} - \frac{S}{(6)} - (7)$

- (1) Product Type : Chip Antenna
- (2) Center Frequency/Band Code : G -868MHz
- (3) Size Code : 24mm(length) x 5.5mm(width)
- (4) Design Revision Code : D1= Rev. 1
- (5) Series No. : MF=MONOPOLE PCB type
- (6) Special Code : S= RoHS Compliant
- (7) Suffix For Special Requirements

2. Electrical Specification :

ITEM	SPECIFICATION
Frequency Band	868 MHz
VSWR	2 Max (depends on the special environment)
Polarization	Linear
Impedance	50 ohm Typ.
Operating temperature	-45 ~85 °C
Dimension	24 x 5.5 x 3.9mm

* Test condition : Test board size 114*45 mm
Matching circuit may be required

UNLESS OTHER SPECIFIED TOLERANCES ON :
 X=N/R X.X=N/R X.XX =N/R
 ANGLES=N/R HOLEDIA=N/R



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SCALE : N/R	UNIT : mm
DRAWN BY : 郭副哲	CHECKED BY : 劉維林
DESIGNED BY : 陳武君	APPROVED BY : 謝立庭

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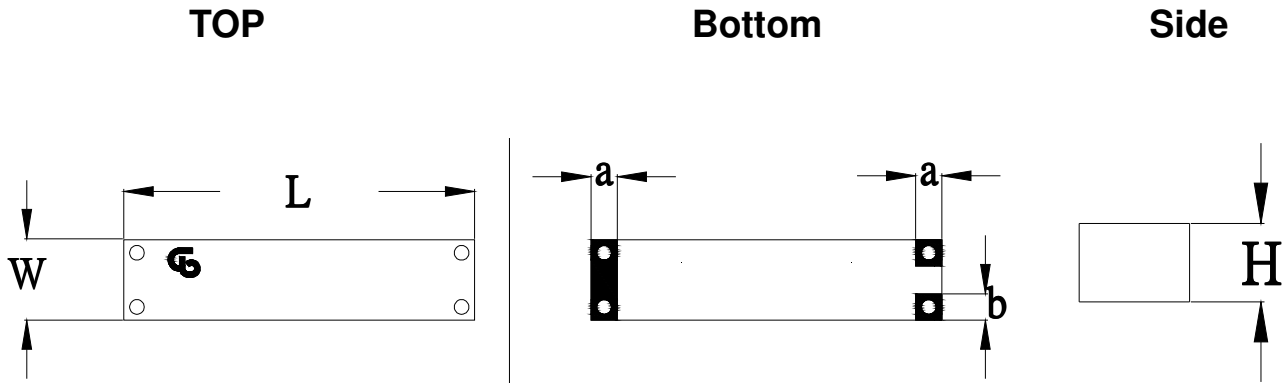
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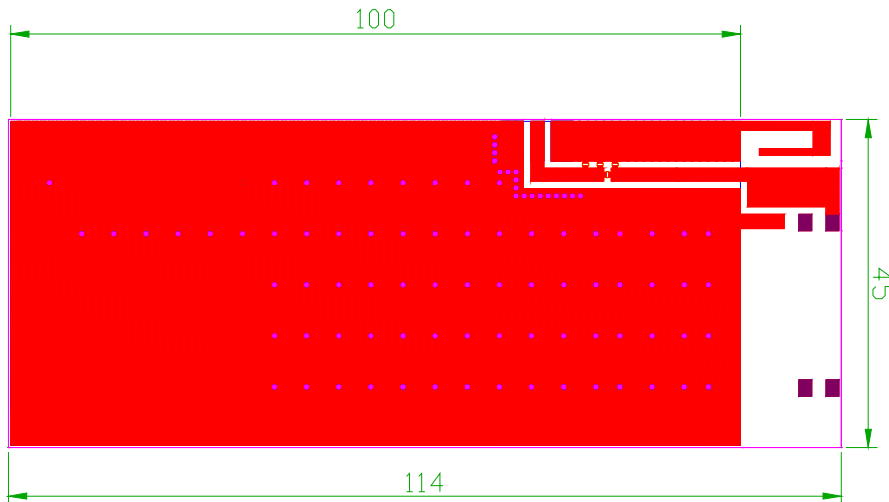
3. Physical Dimension :



Chip Antenna	L	W	H	a	b
ACG-2455-A1-MF-S	24±0.3	5.5±0.3	3.9±0.3	1.8±0.25	1.8±0.25

4. Recommend PCB Layout :

Top View



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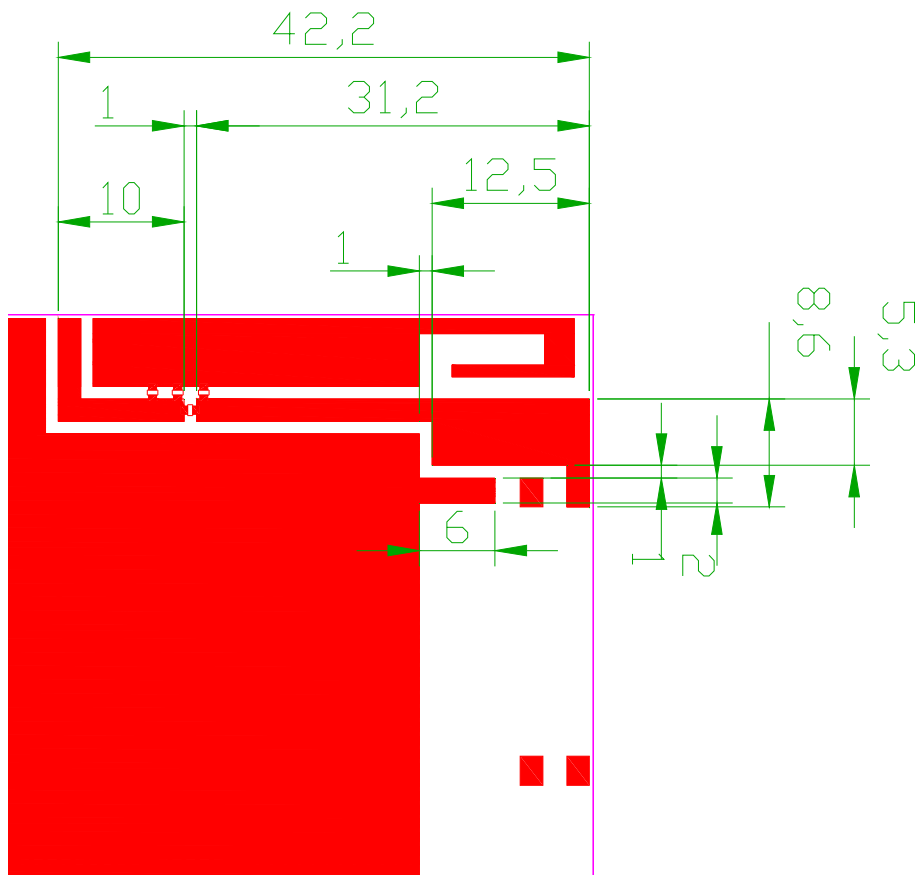
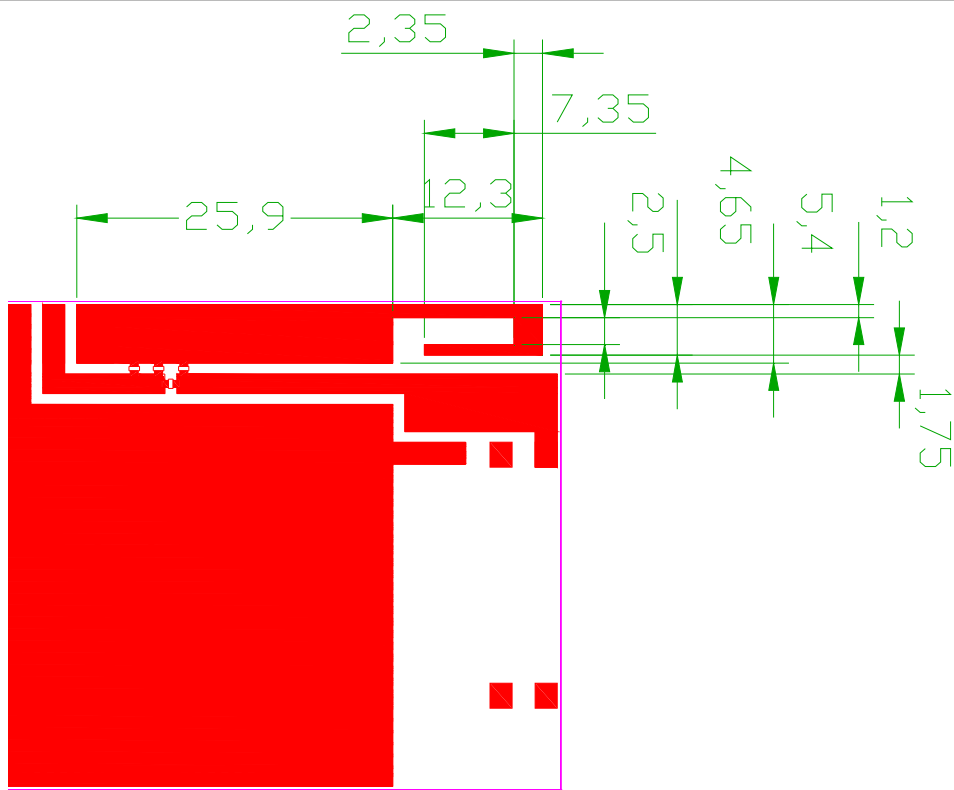
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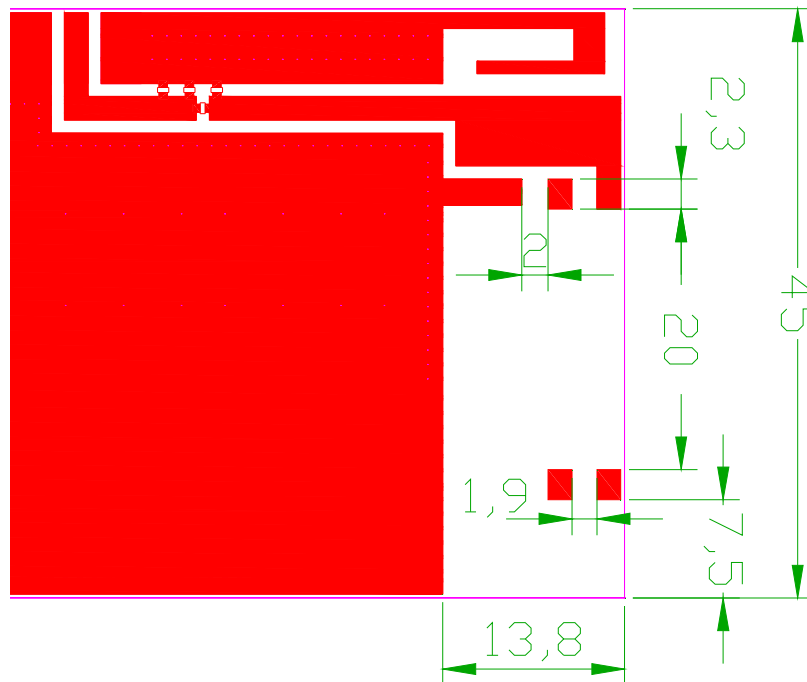
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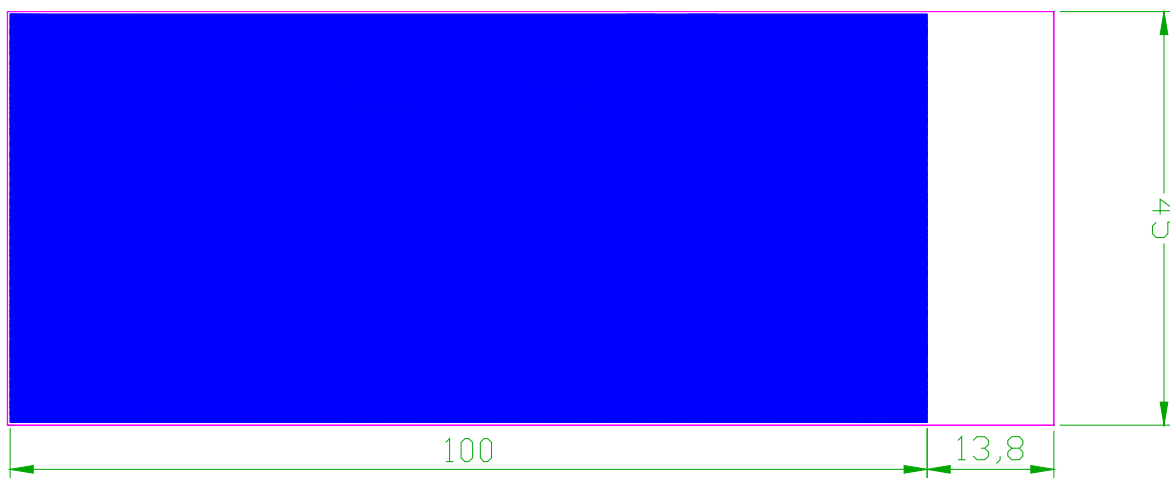
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Bottom View



- Top Layer
- Bottom Layer
- Top Solder

Unit : mm

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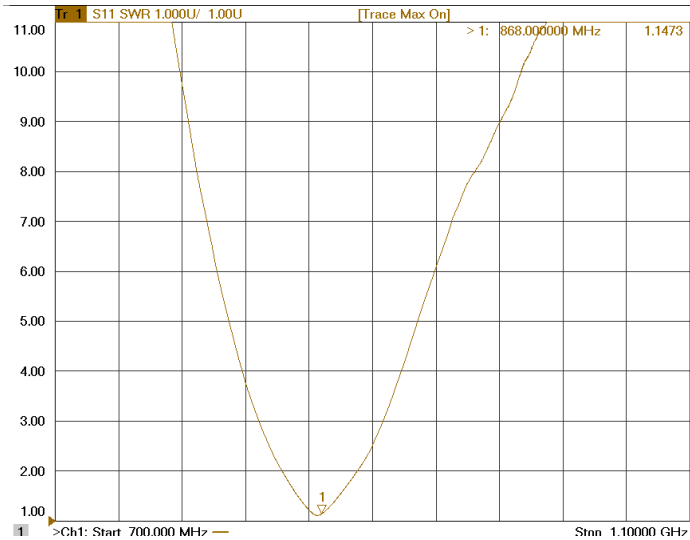
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5. Electrical Characteristics :

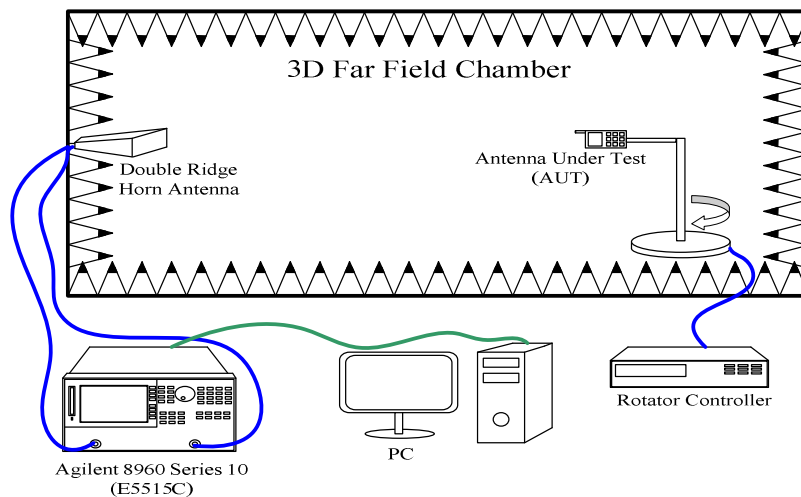
VSWR



Frequency (MHz)	VSWR
868	1.14

Radiation Pattern

The Gain pattern is measured in INPAQ’s FAR-field chamber. DUT is placed on the table of rotator, a standard horn antenna and Vector Network Analyzer is used to collect data.



3D Chamber Definition

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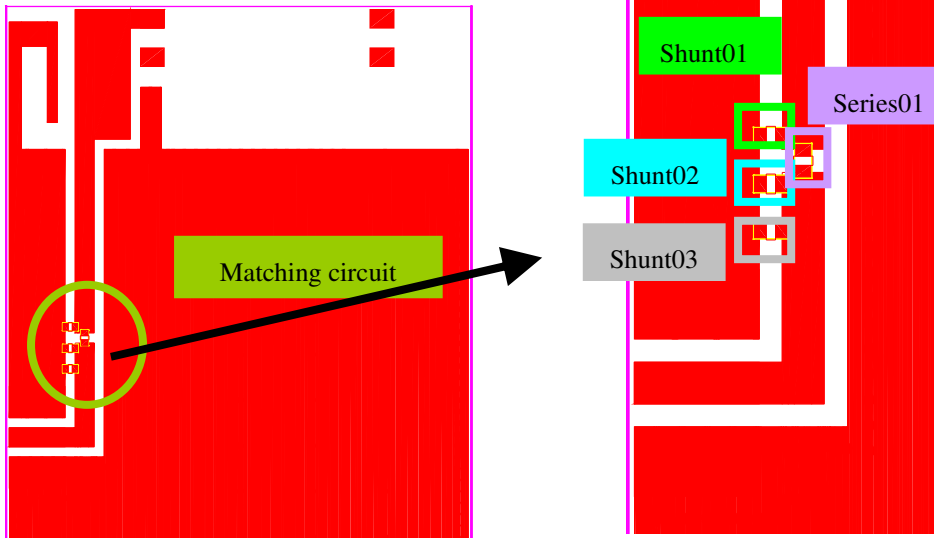
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Efficiency & Peak Gain

Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
858	2.17	70.82
868	2.06	74.47
878	1.96	70.33

Matching Circuit on Demoboard



Circuit Symbol	Size	Description
Series01	0402	3.9 nH Inductor
Shunt03	0402	6 pF Capacitance

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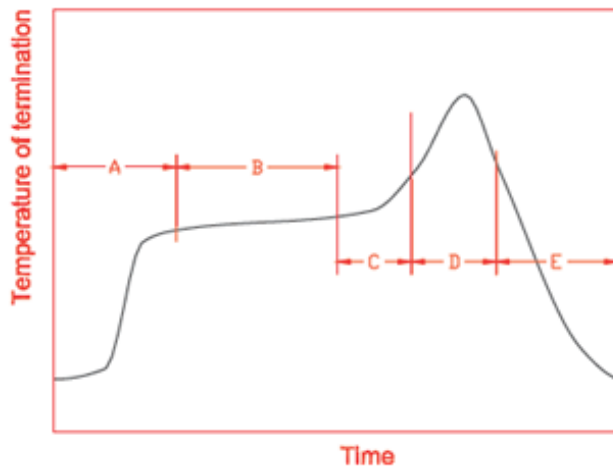
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6. Recommended reflow soldering :



A	1 st rising temperature	The normal to Preheating temperature	30s to 60s
B	Preheating	140°C to 200°C	90s to 120s
C	2 nd rising temperature	Preheating to 217°C	30s to 60s
D	Main heating	240°C ~ 260°C	20s to 40s
E	Regular cooling	200°C to 100°C	3°C/s ~ 6C/s

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