

SPECIFICATION

PART NO :	GL2012H2450-D06
CUSTOMER PART NO :	
CUSTOMER APPROVED BY :	
APPROVED DATE :	

RoHS Compliant Parts

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Formed	Document Version V1.5)	

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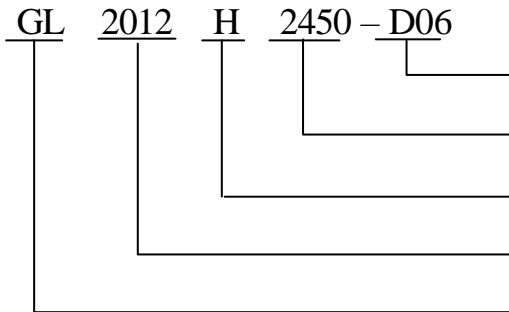
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Specification

1 INTRODUCTION

"GLEAD" Microwave Multi-Layer Ceramic Antenna LA series are designed to be used in WLAN、WiFi、Bluetooth、PHS、Multip le-band Mobile phone antenna, FM, etc and compact size SMD chip design.

2 Part Number



D06 /Product Name:D06

/ Antenna Frequency:

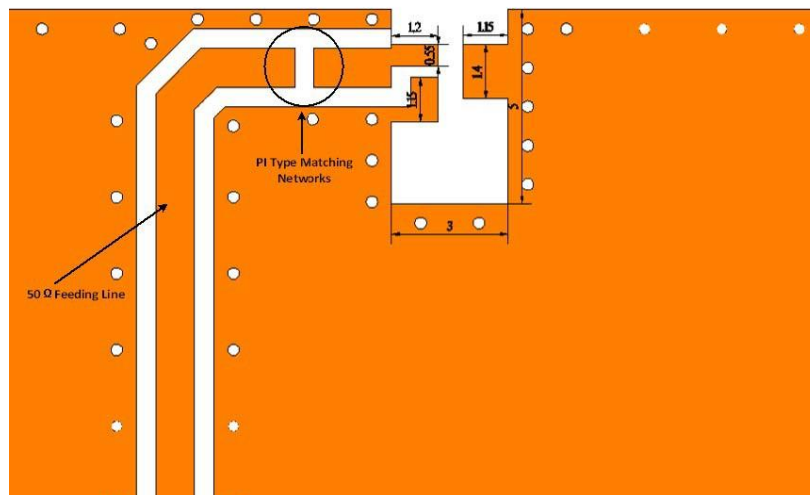
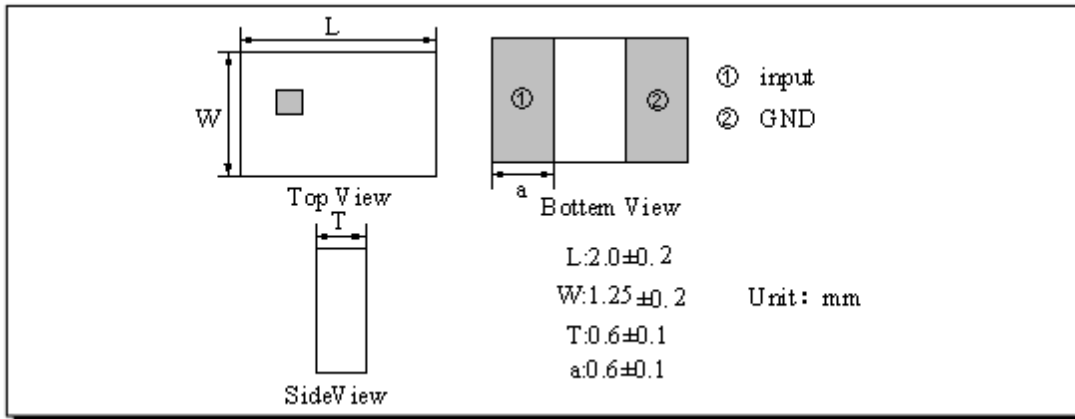
2450 MHz

H /Via Design Series

/Size : 2.0 x1.25 x0.6

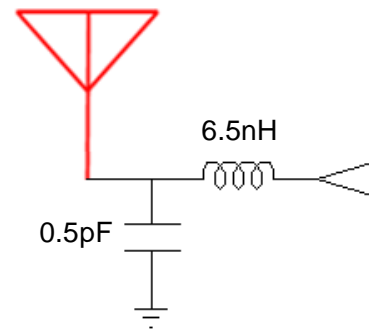
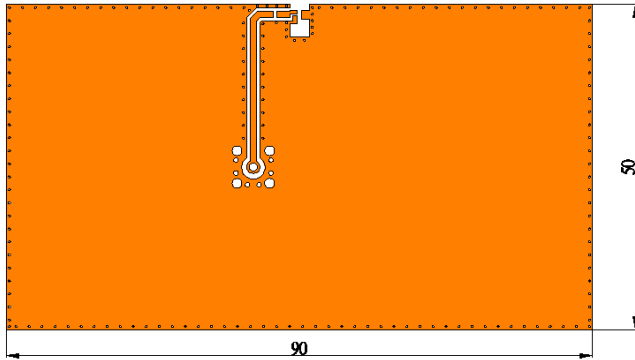
/Multi-layer Antenna

3 Dimensions (Unit : mm)



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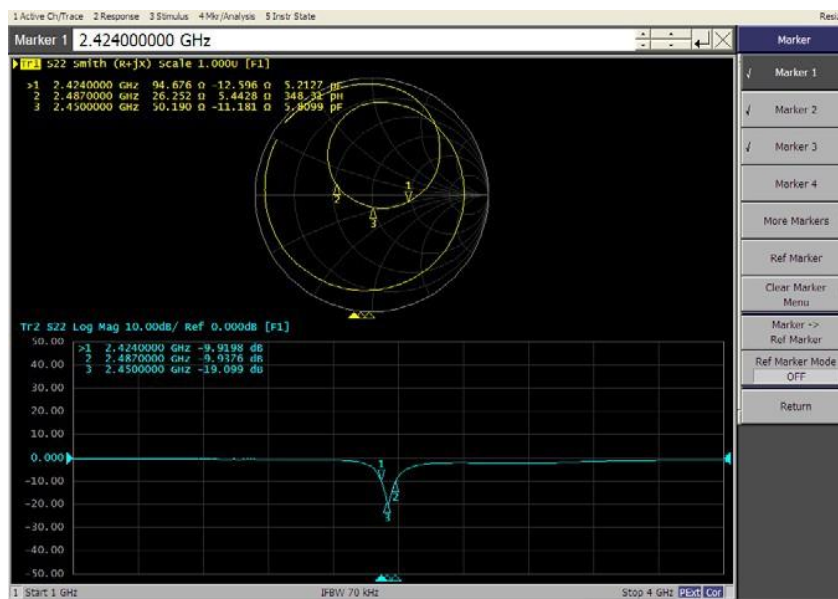
4 Evaluation Board and Matching Circuits



5 Electrical Characteristics

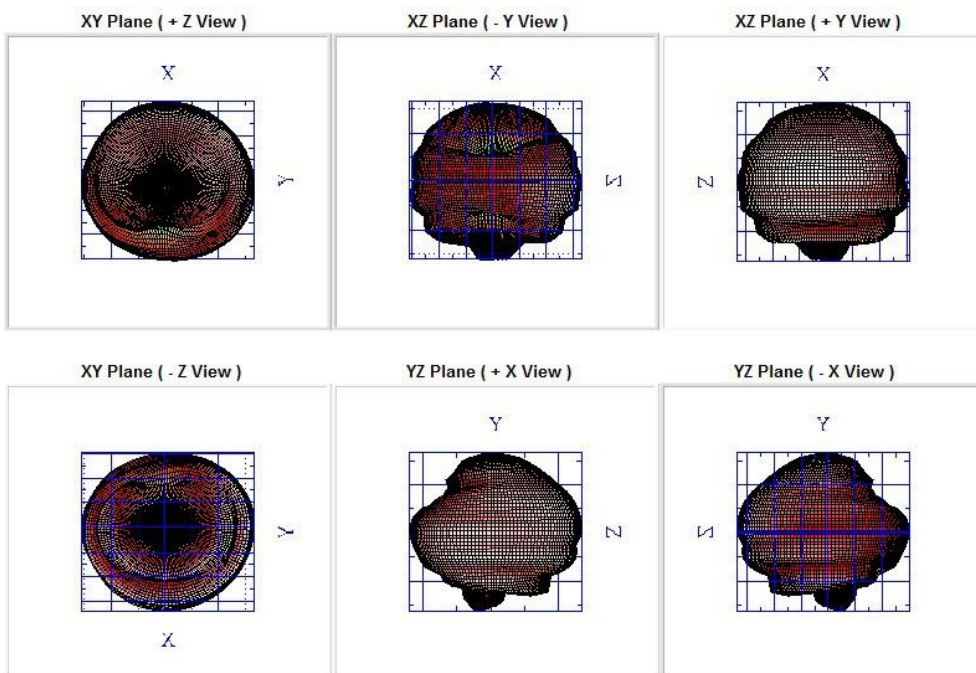
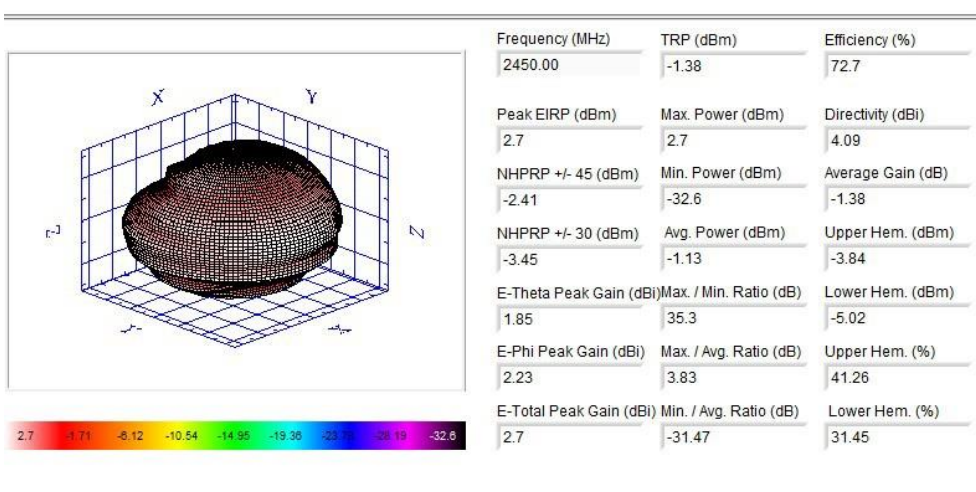
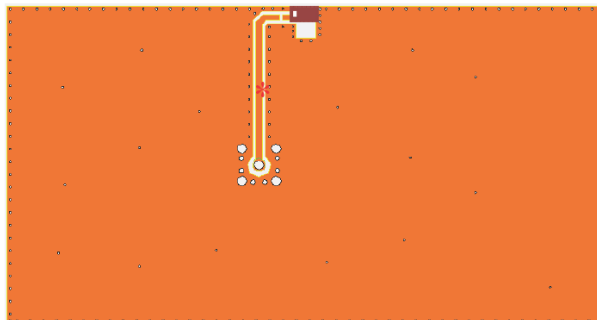
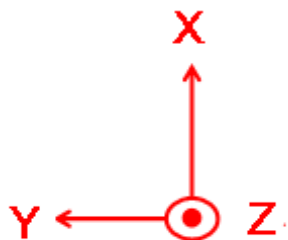
No.	Item (项目)	Specifications (特性)
5.1	Working Central Frequency 中心工作频率 (After matching)	2450 MHz
5.2	Band Width 通带宽度	65MHz typ.
5.3	Peak Gain 峰值增益	2.7 dBi
5.4	V.S.W.R (in BW) 驻波比	≤2.0
5.5	Polarization 极化方式	Linear 线性
5.6	Azimuth Beam width 方位角	Omni-directional 全向
5.7	Impedance 阻抗	50 Ω

6 Characteristic curve



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7 Radiation Pattern



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8 Post Dependability Tolerance

Post Dependability Tolerance (Refer to the table)

No.	Item (项目)	Post Dependability Tolerance (可靠性试验后允许附加误差)
8.1	Central Frequency 中心频率	± 5 MHz
8.2	Band Width 通带宽度	± 5 MHz
8.3	Gain 增益	± 0.1 dBi
8.4	V.S.W.R (in BW) 驻波比	± 0.1

9 Dependability Test

Temperature range	$25 \pm 5^{\circ}\text{C}$
Relative Humidity range	55~75%RH
Operating Temperature range	-
40°C~+85°C Storage Temperature range	-40°C~+85°C

9.1 Vibration Resist

The device should satisfy the electrical characteristics specified in paragraph 8.1~8.4 after applied to the vibration of 10 to 55Hz with amplitude of 1.5mm for 2 hours each in X, Y and Z directions.

9.2 Drop Shock

The device should satisfy the electrical characteristics specified in paragraph 8.1~8.4 after dropping onto the hard wooden board from the height of 100cm for 3 times each facet of the 3 dimensions of the device.

9.3 Solder Heat Proof

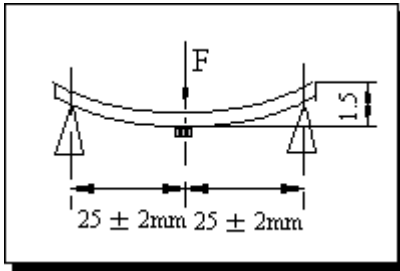
The device should be satisfied after preheating at $120^{\circ}\text{C}\sim 150^{\circ}\text{C}$ for 120 seconds and dipping in soldering Sn at $255^{\circ}\text{C}\pm 10^{\circ}\text{C}$ for 5 ± 0.5 seconds or electric iron $300^{\circ}\text{C}\sim 10^{\circ}\text{C}$ for 3 ± 0.5 seconds without damage.

9.4 Adhesive Strength of Termination

The device have no remarkable damage or removal of the termination after horizontal force of 5N(≤ 0603) ; 10N(>0603)with 10 ± 1 seconds.

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9.5 Bending Resist Test



Weld the product to the center part of the PCB with the thickness $1.6 \pm 0.2\text{mm}$ as the illustration shows, and keep exerting force arrow-ward on it at speed of 1mm/S , and hold for $5 \pm 1\text{S}$ at the position of 1.5mm bending distance, so far, any peeling off of the

product metal coating should not be detected.

9.6 Moisture Proof

The device should satisfy the electrical characteristics specified in paragraph 8.1~8.4 after exposed to the temperature $60 \pm 2^\circ\text{C}$ and the relative humidity $90\sim 95\%$ RH for 96 hours and 1~2 hours recovery time under normal condition.

9.7 High Temperature Endurance

The device should satisfy the electrical characteristics specified in paragraph 8.1~8.4 after exposed to temperature $85 \pm 5^\circ\text{C}$ for 96 ± 2 hours and 1~2 hours recovery time under normal temperature.

9.8 Low Temperature Endurance

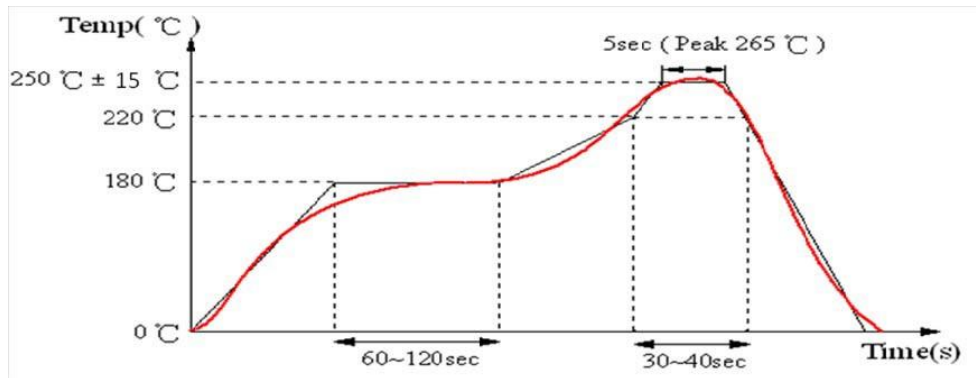
The device should also satisfy the electrical characteristics specified in paragraph 8.1~8.4 after exposed to the temperature $-40^\circ\text{C} \pm 5^\circ\text{C}$ for 96 ± 2 hours and to 2 hours recovery time under normal temperature.

9.9 Temperature Cycle Test

The device should also satisfy the electrical characteristics specified in paragraph 8.1~8.4 after exposed to the low temperature -40°C and high temperature $+85^\circ\text{C}$ for 30 ± 2 min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.

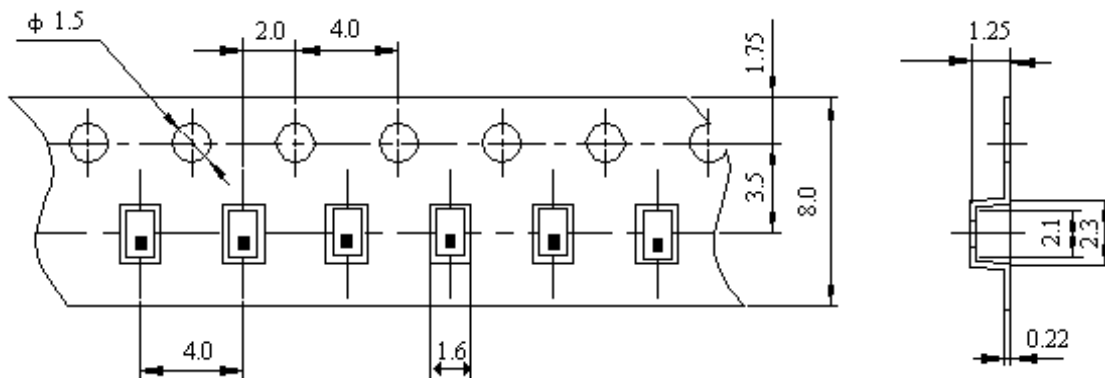
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10 Reflow Soldering Standard Condition



11 Packaging and Dimensions

11.1 Plastic Tape

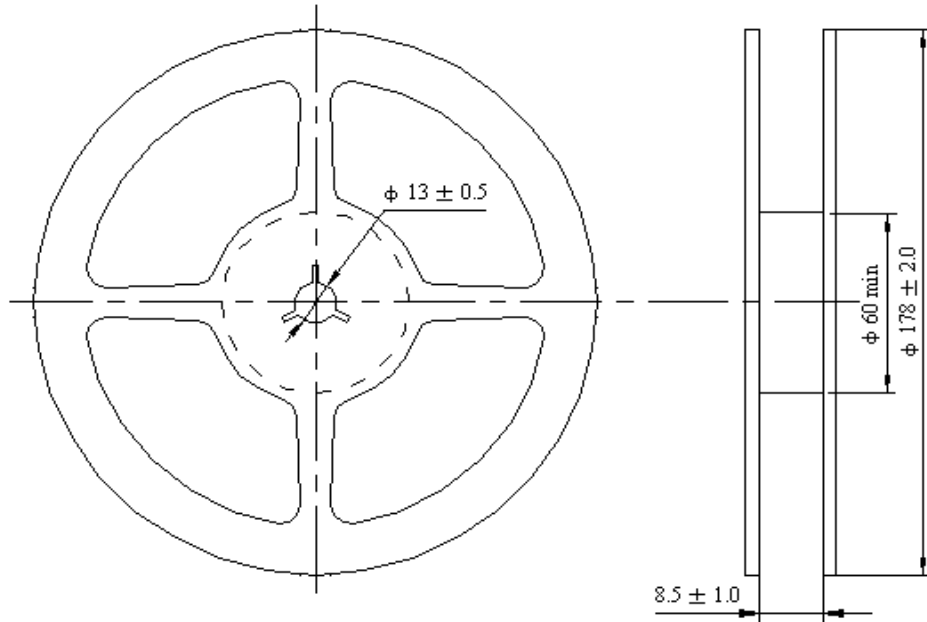


Remarks for Package:

Reserve a length of 150~200mm for the trailer of the carrier and 250~300 mm for the leader of the carrier and further 250mm of cover tape at the leading part of the carrier.

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11.2 Reel (4000 pcs/Reel)



11.Storage Period

Product should be used within six months of receipt.

MSL 1 / Storage Temperature Range : <30 degree C, Humidity : <85% RH