

承 認 書

SPECIFICATION FOR APPROVAL

客戶名稱
 CUSTOMER : _____
 客戶料號
 CUSTOMER'S P/N : _____
 料號
 PART NUMBER : WAN2012F245C04
 規格
 DESCRIPTION : Chip Antenna 2012 L Ant 2.45G Type 04
 版本
 VERSION : V2.0
 日期
 ISSUE DATE : 2024/10/15

客 戶 承 認 CUSTOMER APPROVED

工 程 部 R&D CENTER		
承 認 APPROVAL	確 認 CHECKED	製 作 DRAWN
Ray	Tennyson	Snow



萬誠科技股份有限公司

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傳真: (02) 2898-5055

OneWave Electronic Co., Ltd.

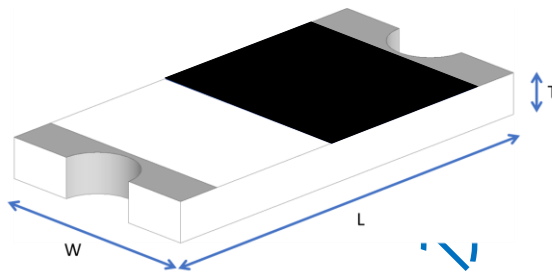
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2012 Chip antenna

For Bluetooth / WLAN Applications



P/N: WAN2012F245C04

	Dimension (mm)
L	2.05 ± 0.20
W	1.23 ± 0.20
T	0.45 ± 0.20

Part Number Information

WAN 2012 F 245 C 04
 A B C D E F

A	Product Series	Antenna
B	Dimension L x W	2.05X1.23mm (± 0.2mm)
C	Material	High K material
D	Working Frequency	2.4 ~ 2.5GHz
E	Feeding mode	PIFA & Single Feeding
F	Antenna type	Type = 04

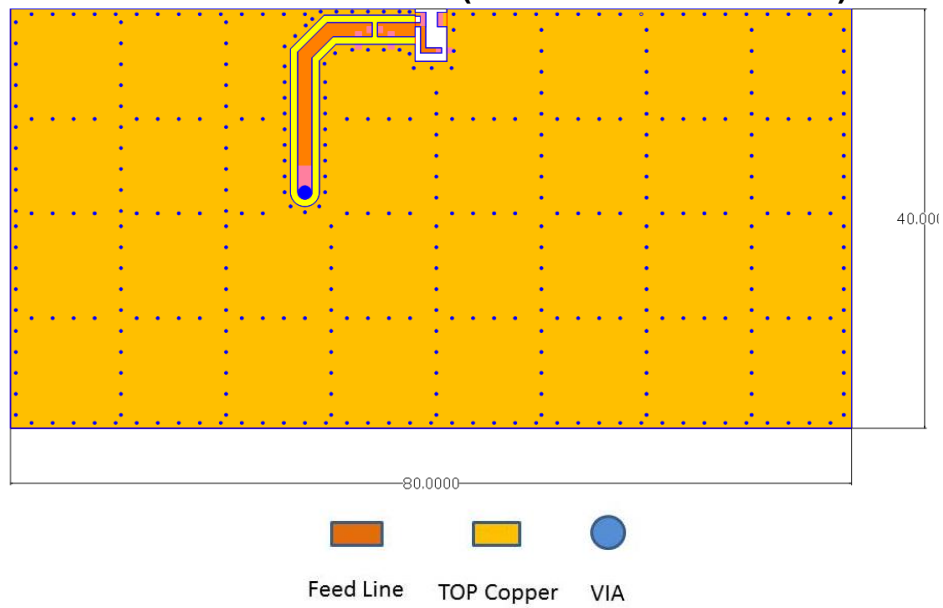
1. Electrical Specification

Specification		
Part Number	WAN2012F245C04	
Central Frequency	2450	MHz
Bandwidth	85 (Min.)	MHz
Return Loss	-6.5 (Max)	dB
Peak Gain	1.72	dBi
Impedance	50	Ohm
Operating Temperature	-40 ~ +110	°C
Maximum Power	4	W
Resistance to Soldering Heats	10 (@ 260°C)	sec.
Polarization	Linear	
Azimuth Beamwidth	Omni-directional	
Termination	Cu / Sn (Leadless)	

Remark : Bandwidth & Peak Gain was measured under evaluation board of next page

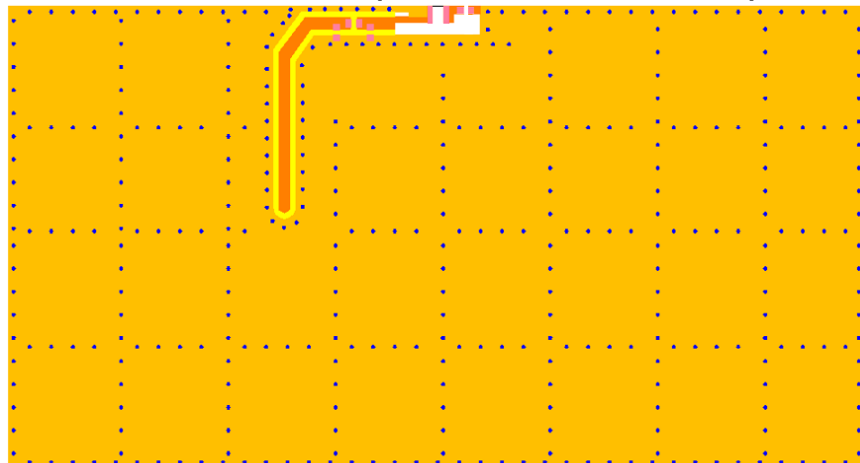
2. Recommended PCB Pattern

Evaluation Board Dimension (board size 80x40mm)

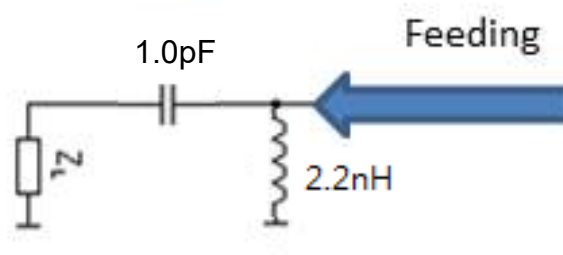


2nd Evaluation Board Dimension

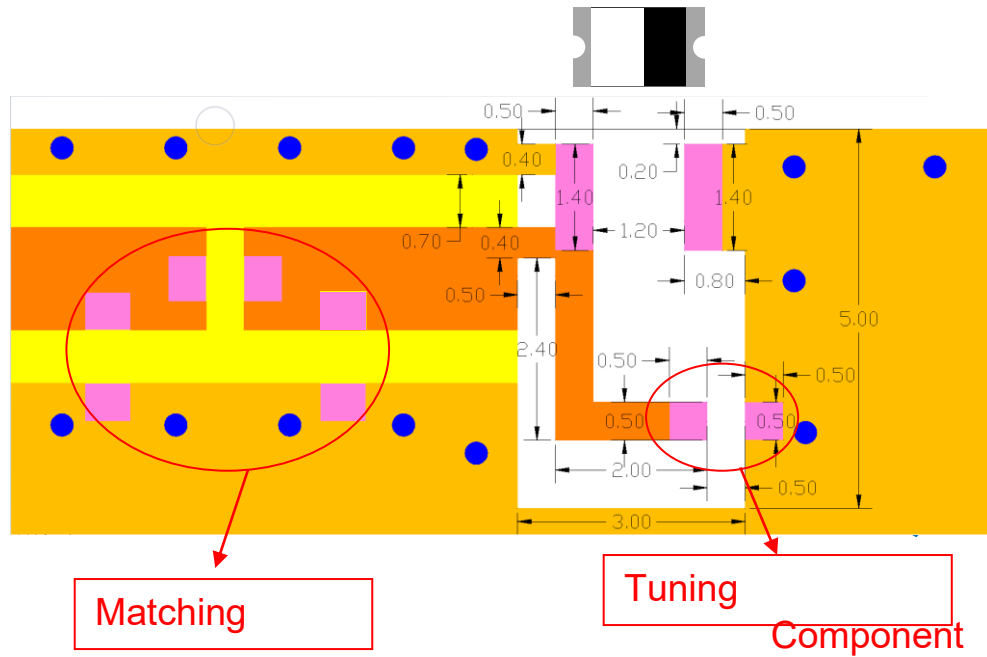
Evaluation Board Dimension (board size 80x40mm)



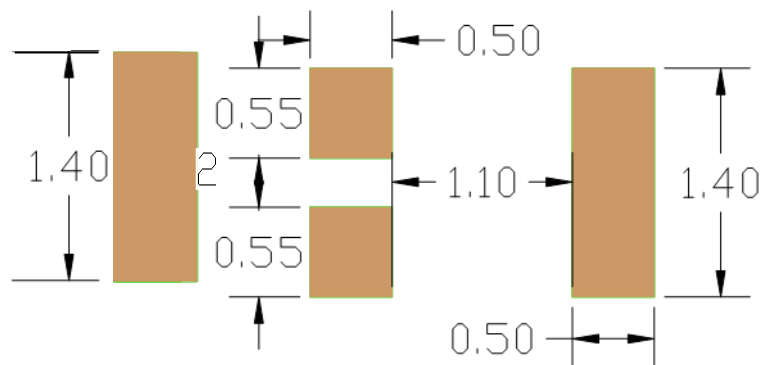
Suggested Matching Circuit



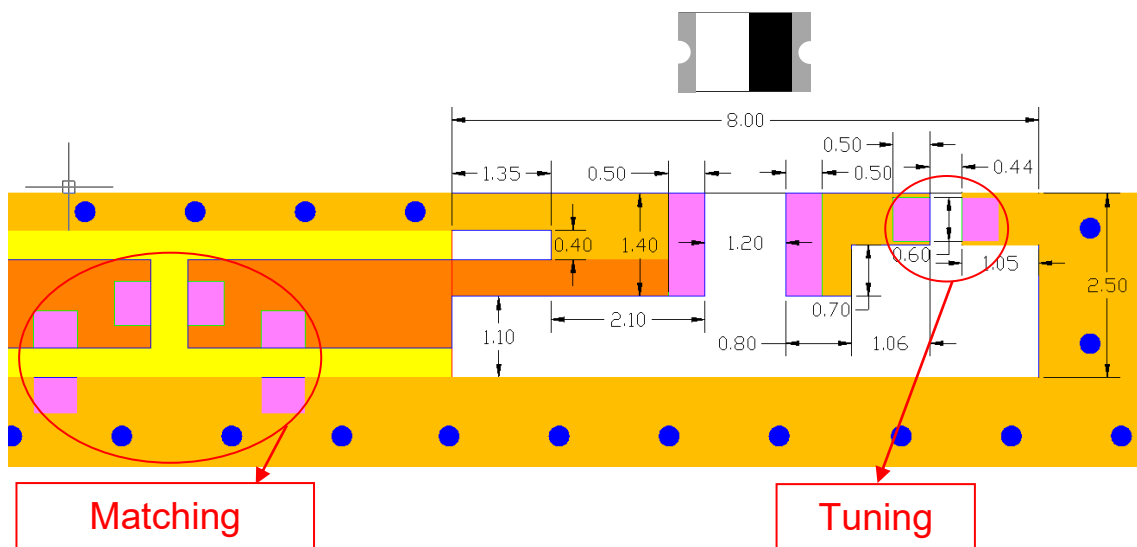
Layout Dimensions in Clearance area(Size=3.0*5.0mm)



FootPrint (Unit : mm)

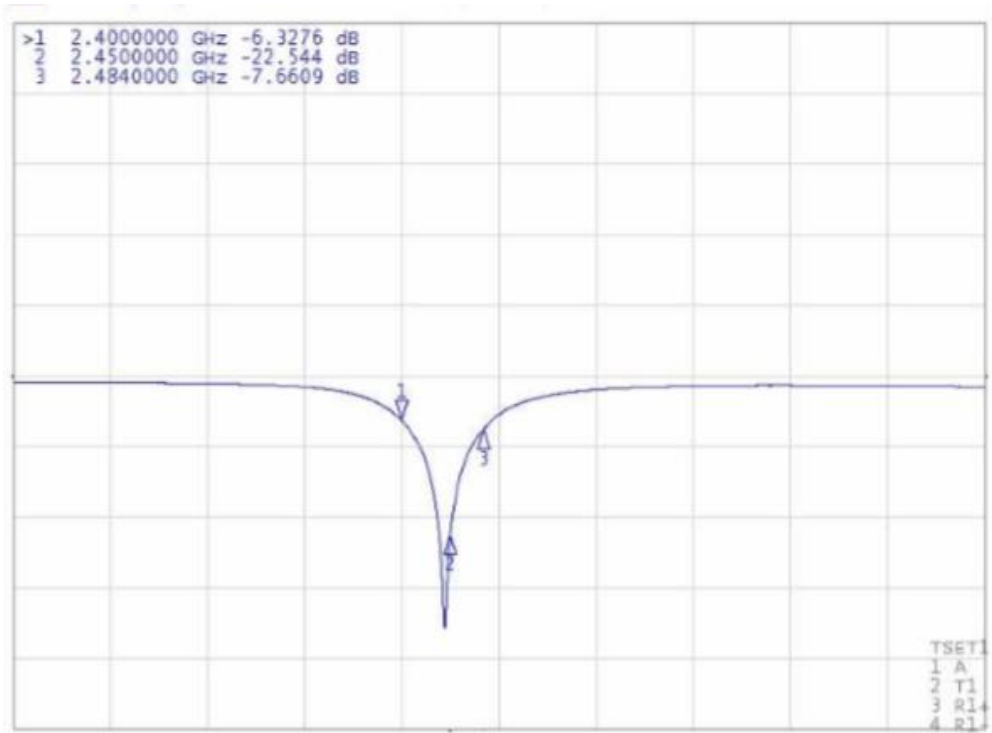


◆ 2nd Layout Dimensions in Clearance area(Size=8.0*2.5mm)

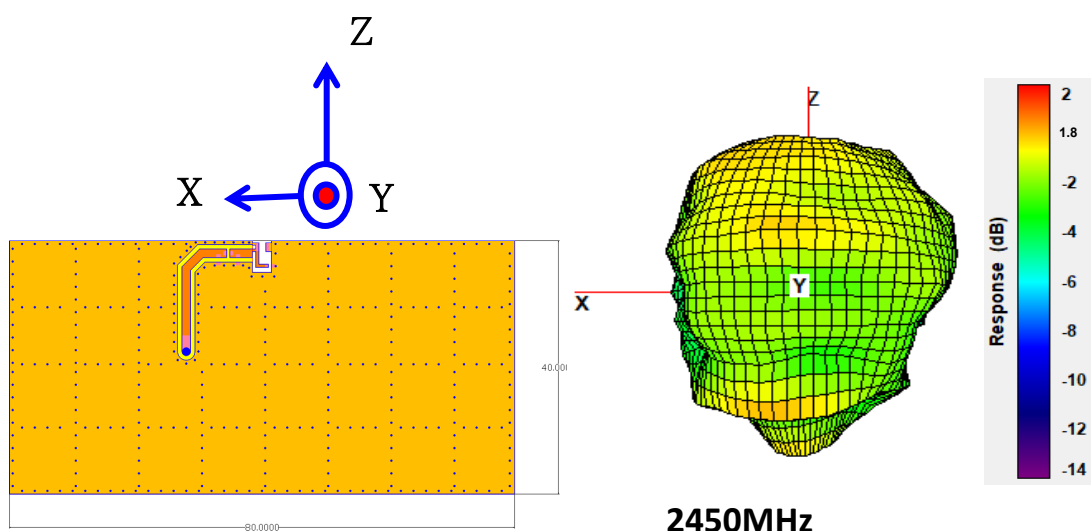


3. Measurement Results

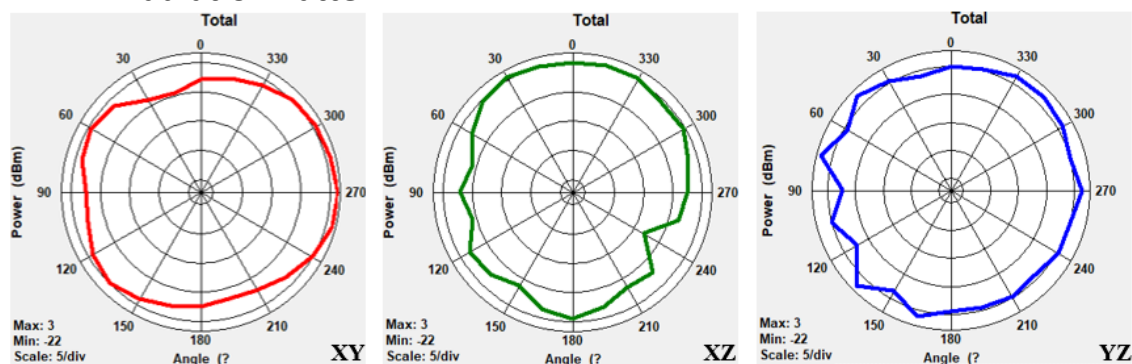
Return Loss



3D Radiation Pattern



2D Radiation Pattern



	Efficiency	Peak Gain	Directivity
2400MHz	63.12 %	1.62 dBi	3.61 dBi
2450MHz	70.56 %	1.72 dBi	3.23 dBi
2500MHz	65.48 %	1.64 dBi	3.47 dBi

Chamber Coordinate System

