

SPECIFICATION FOR APPROVAL

CUSTOMER : _____
CUSTOMER'S P/N : _____
PART NUMBER : WAN3216F245H0X
DESCRIPTION : Chip Antenna 3216 L Ant 2.45G Type 0X
VERSION : V2.2
ISSUE DATE : 2018/07/01

CUSTOMER APPROVED

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R&D CENTER

APPROVAL	CHECKED	DRAWN
Ray	Nate	Kelvin

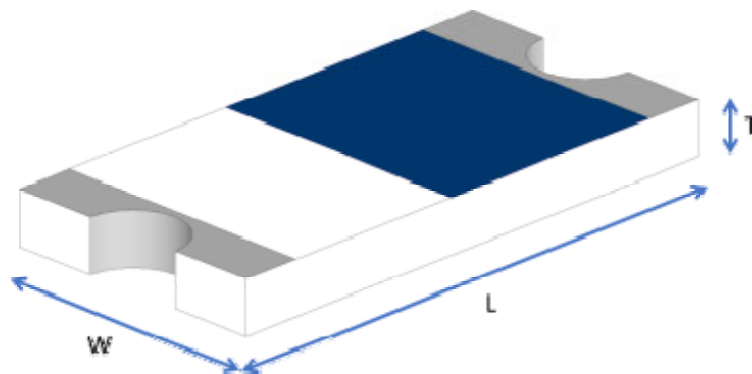
OneWave Electronic Co., Ltd. 2F., No.163, Sec.

1, Xi'an St., Beitou Dist,
Taipei City 112, Taiwan
TEL: +886 2 2898-2220
FAX: +886 2 2898-5055



3216 Chip antenna

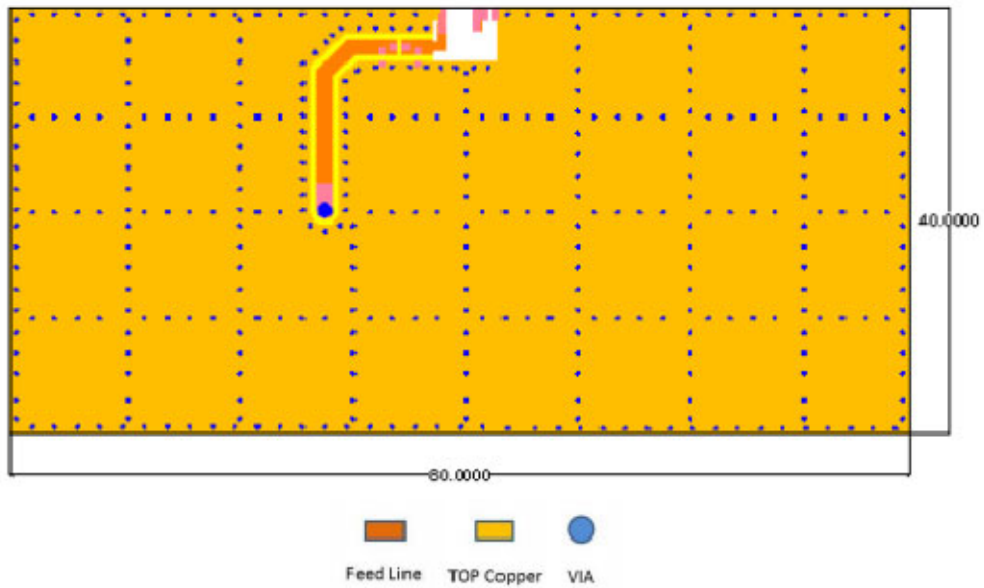
For Bluetooth / WLAN Applications



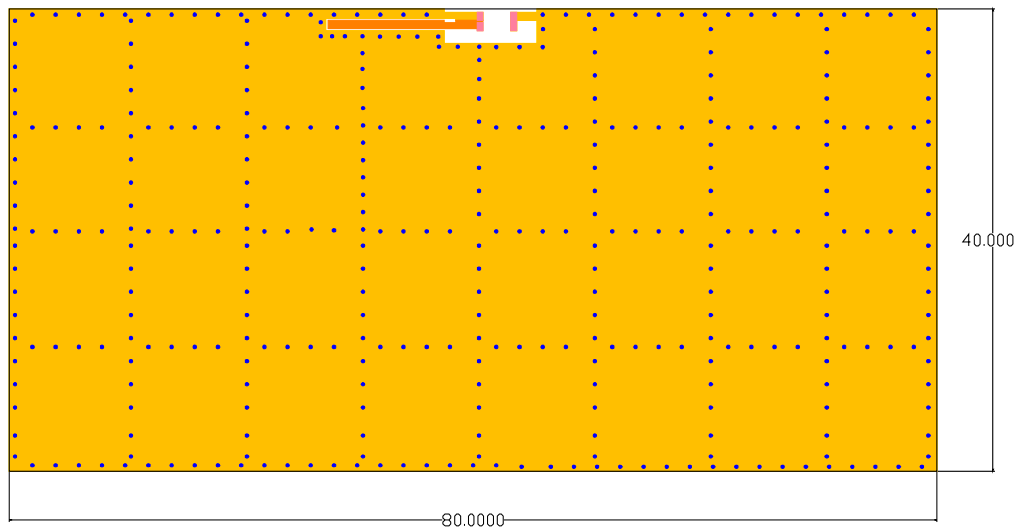
P/N: WAN3216F245H0X

	Dimension (mm)
L	3.23 ± 0.20
W	1.66 ± 0.20
T	0.45 ± 0.20

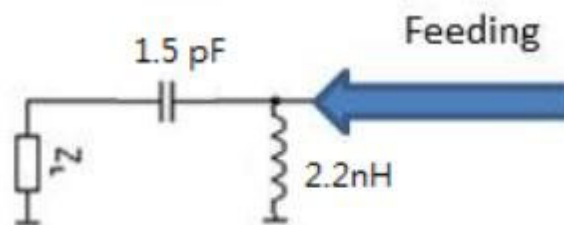
2. Recommended PCB Pattern Evaluation Board Dimension



2nd Evaluation Board Dimension



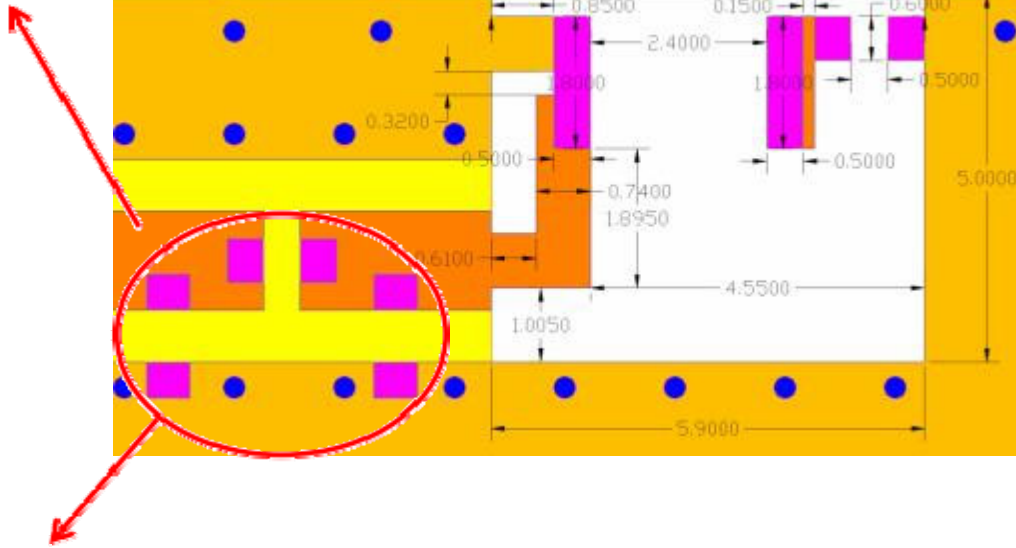
Suggested Matching Circuit



Layout Dimensions in Clearance area(Size=5.9*5.0mm)

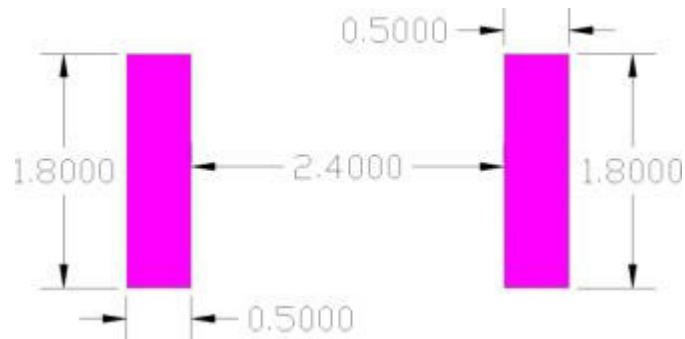


50 ohm transmission Line

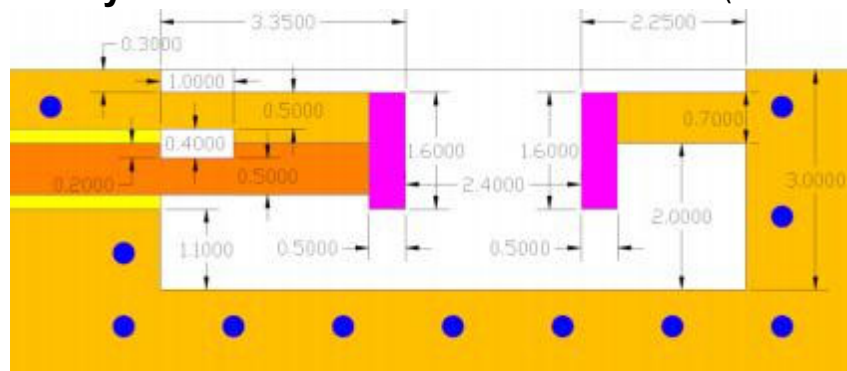


Matching Circuit

FootPrint (Unit : mm)

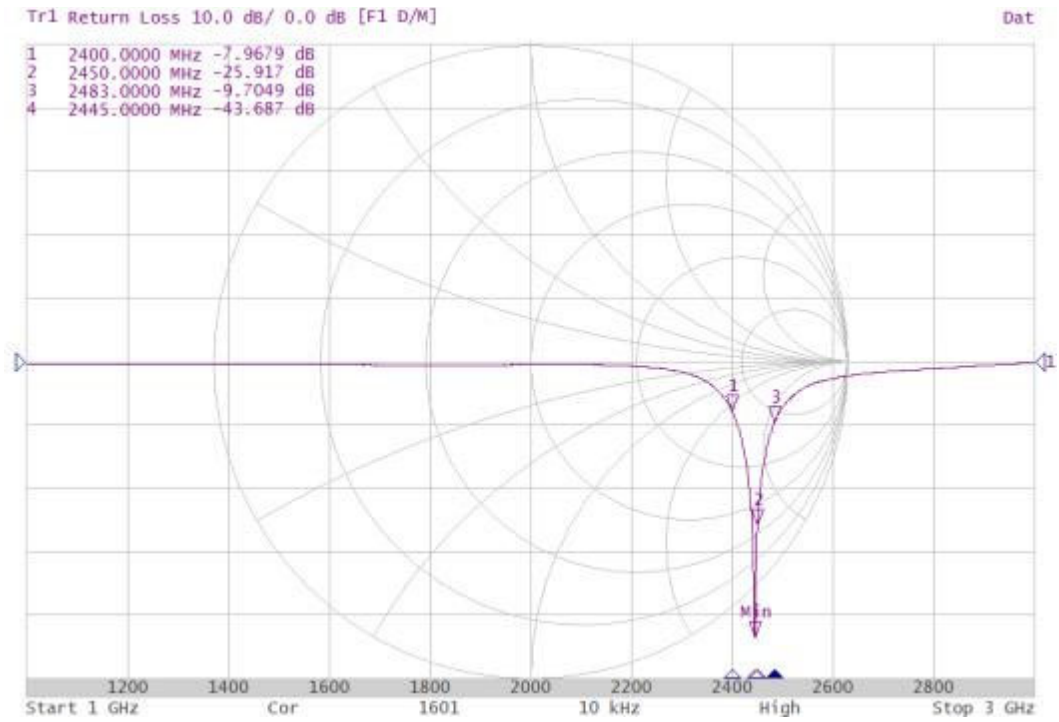


◆ 2nd Layout Dimensions in Clearance area(Size=8.0*3.0mm)



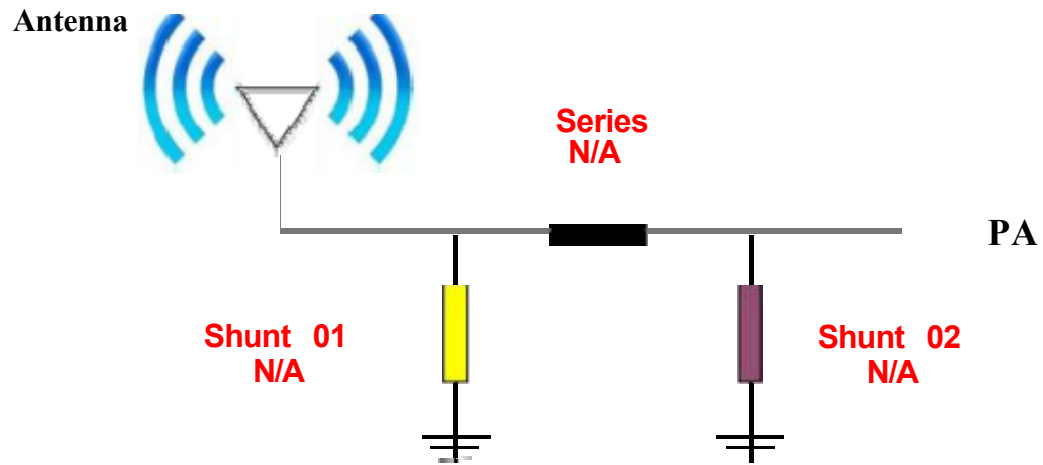
3. Measurement Results

Return Loss



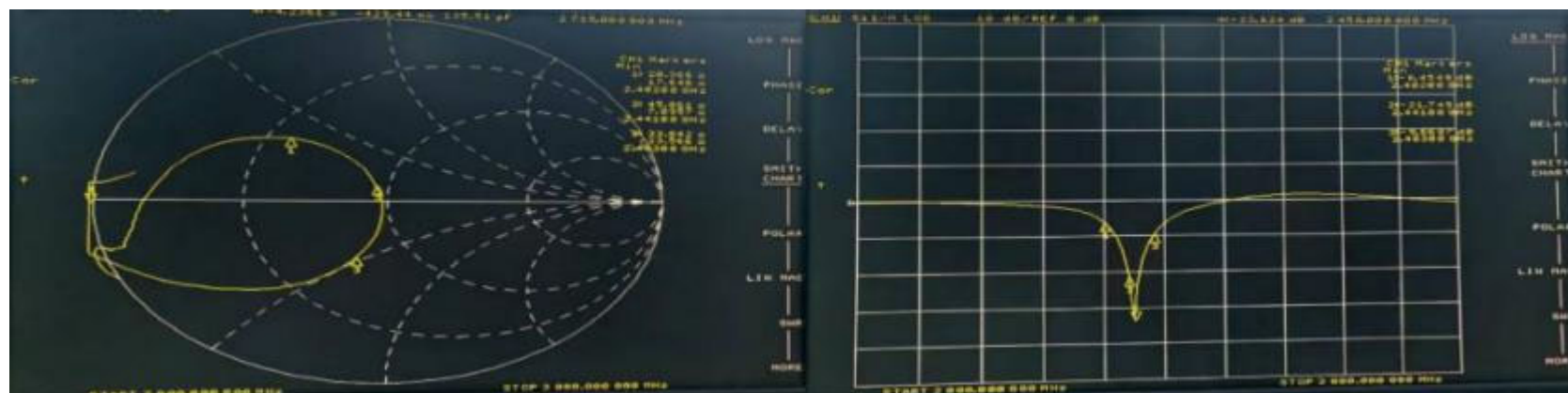
C6 Antenna

Antenna Matching Network



Location	Description	Vendor
Shunt 01	N/A	N/A
Series	N/A	N/A
Shunt 02	N/A	N/A

S11 SWR /Smith/ Log Mag



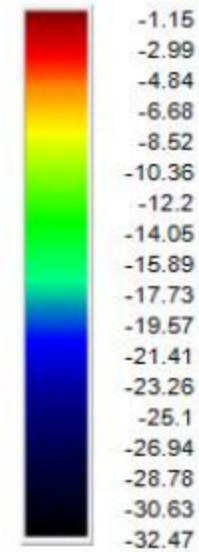
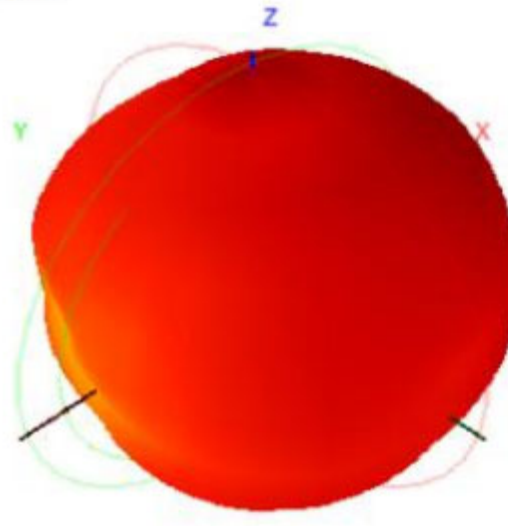
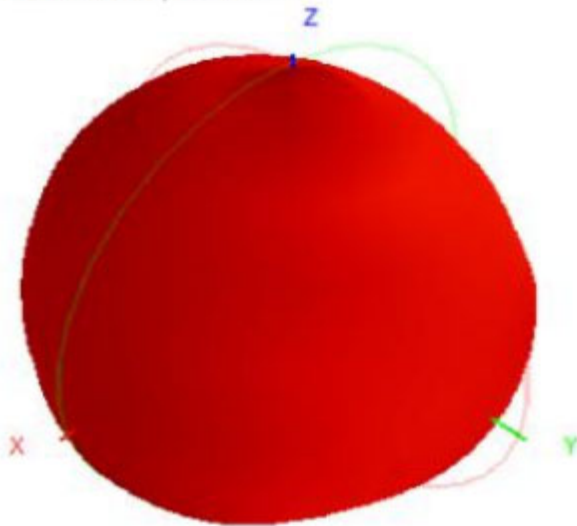
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-4.80	-4.45	-4.32	-4.22	-4.22	-4.27	-4.45	-4.71	-4.99	-5.32	-5.72
Gain (dBi)	-0.66	-0.50	-0.55	-0.69	-0.92	-1.15	-1.45	-1.75	-1.85	-2.05	-2.41
Efficiency (%)	33.11	35.93	36.98	37.88	37.87	37.40	35.86	33.80	31.66	29.38	26.78

增益&效率

Frequency (MHz)	Efficiency (%)	Efficiency (db)	Peak GAIN (dBi)
2400	33.11	-4.8	-0.66
2450	37.4	-4.27	-1.15
2500	31.66	-4.99	-1.85

2450.0MHz H+V, Eff: 37.4%

Back View



天线调试位置



C6-V02 贴片位置标示图

