

Features

SMD, high reliability, ultra Impact, Omni-directional...

Part number Information

RANT 3216 F 245 C 03
(A) (B) (C) (D) (E) (F)

(A)Product Type	Chip Antenna
(B) Size Code	3.2x1.6mm(±0.2mm)
(C) Material	High K material
(D) Frequency	2.4 ~ 2.5GHz
(E) Feeding mode	PIFA & Single Feeding
(F) Antenna type	Type=03

Electrical Specification

Working Frequency Range	2400 ~2500 MHz
Bandwidth	120 MHz (Min.)
Peak Gain	1.24 dBi (Typ.)
Impedance	50 Ohm
Return loss	10 dB (Min)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Operation Temperature(°C)	-40 ~85°C
Resistance to Soldering Heats	10sec. (@ 280°C)
Termination	Ni / Au (Leadless)

The specification is defined on EVB.

Dimension and Terminal Configuration

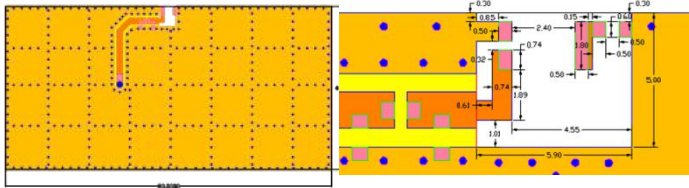
Dimension (mm)	
L	3.20 ± 0.20
W	1.60 ± 0.20
T	0.45 ± 0.20

No.	Terminal Name
1	Feeding/GNG
2	GND/Feeding

咏成國際科技有限公司

Evaluation Board Reference

长条板PCB
推荐
Dimension

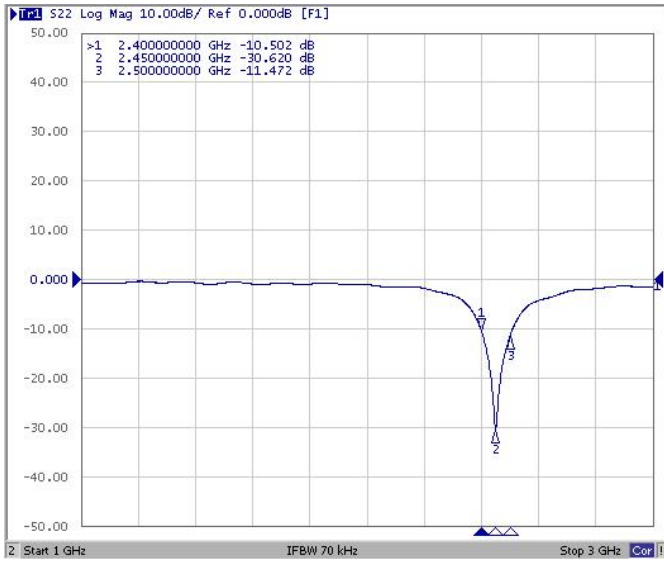


Unit :mm

Electrical Characteristics

Return Loss & Radiation

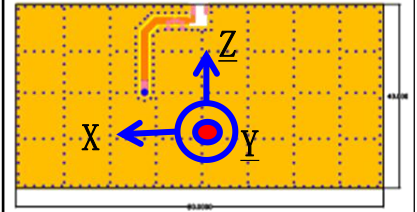
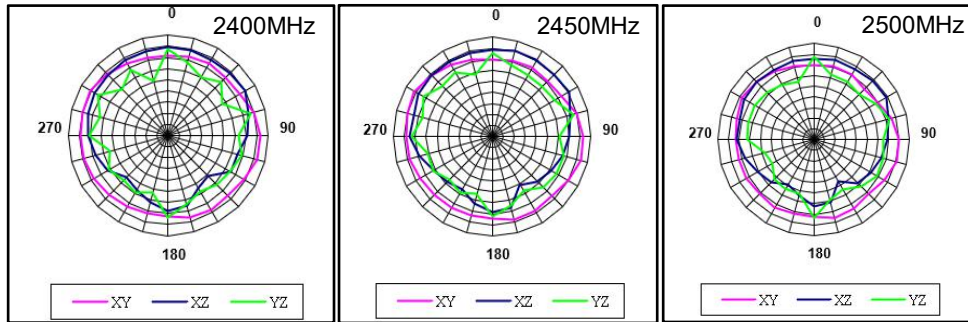
Return Loss



Frequency(MHz)	S11 (dB)
2400	-10.50
2450	-30.62
2500	-11.47

2.4GHz 3216 Chip Antenna: RANT3216F245C03

Radiation



	2400MHz	2450MHz	2500MHz
Efficiency	82.52%	85.26%	83.01%
Peak Gain	1.15 dBi	1.24 dBi	1.19 dBi
Directivity	1.89 dBi	1.97 dBi	1.91 dBi

