

Features

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

Part number Information

<u>RANT</u>	<u>2012</u>	<u>F</u>	<u>245</u>	<u>X</u>	<u>5</u>
(A)	(B)	(C)	(D)	(E)	(F)
(A)Product Type	Chip Antenna				
(B) Size Code	2.0x1.2mm(+0.2mm)				
(C) Material	High K material				
(D) Frequency	2.4 ~ 2.5GHz				
(E) Feeding mode	PIFA & Single Feeding				
(F) Antenna type	Type=5				

Electrical Specification

Working Frequency Range	2400 ~2484 MHz
Bandwidth	84 (Min.)
Peak Gain	2.0 dBi (Typ.)
Impedance	50 Ohm
Return loss	10 dB (Min)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Operation Temperature(℃)	-40 ~85℃
Resistance to Soldering Heats	10sec. (@ 280℃)
Termination	Ni / Au (Leadless)

The specification is defined on EVB.

Dimension and Terminal Configuration

Dimension (mm)	
L	2.05+0.15
W	1.20+0.15
T	0.85+0.10

No.	Terminal Name
1	Feeding/GNG
2	GND

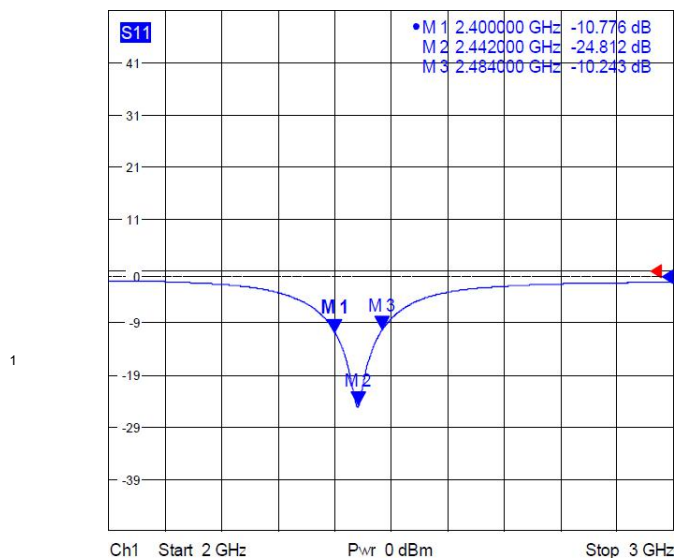
Evaluation Board Reference

PCB Dimension	Antenna Layout Reference
	Unit :mm

Electrical Characteristics

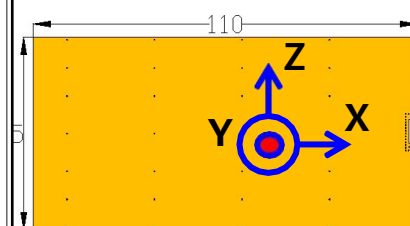
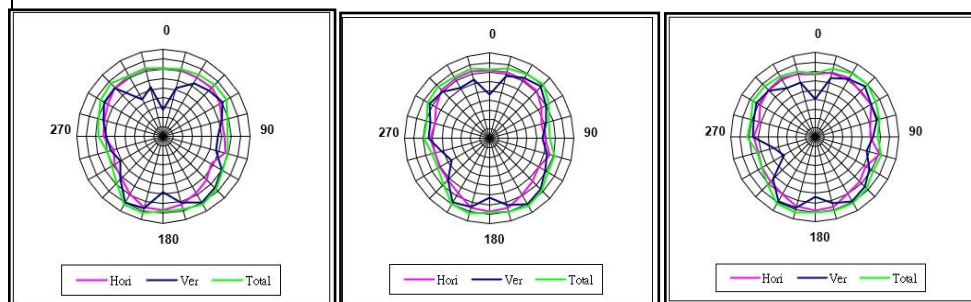
Return Loss & Radiation

Return Loss



Frequency(MHz)	S11 (dB)
2400	-10.77
2450	-24.81
2484	-10.243

Radiation



	2400MHz	2450MHz	2500MHz
Efficiency	70.56%	75.25%	71.01%
Peak Gain	1.72 dBi	1.95 dBi	1.69 dBi
Directivity	2.26 dBi	2.69 dBi	2.11 dBi

