

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

Part number Information

RANT 2012 E 245



(A) (B) (C) (D) $\frac{C}{(E)}$ $\frac{08}{(F)}$

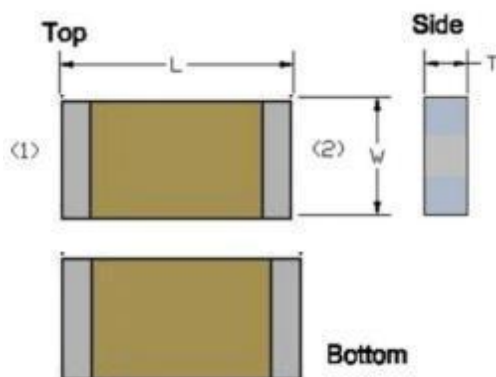
(A) Product Type	Chip Antenna
(B) Size Code	2.0x1.2mm(+/-0.2mm)
(C) Material	High K material
(D) Frequency	2.4 ~ 2.5GHz
(E) Feeding mode	PIFA & Single Feeding
(F) Antenna type	Type=05

Electrical Specification

Working Frequency Range	2400 ~2484 MHz
Bandwidth	84 (Min.)
Peak Gain	1.95dBi (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

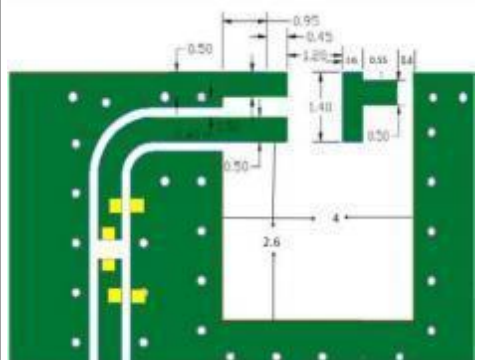
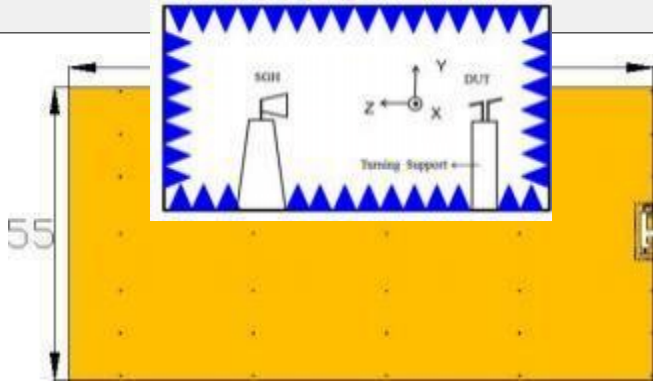


Dimension (mm)	
L	2.05+/-0.15
W	1.20+/-0.15
T	0.85+/-0.10

No.	Terminal Name
1	Feeding/ GNG
2	GND

2.4GHz 2012 Chip Antenna: RANT2012F245C08

Antenna Layout Reference

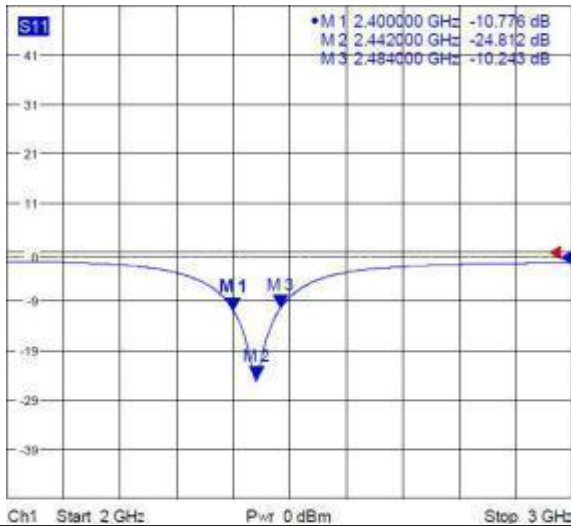


Unit :mm

Electrical Characteristics

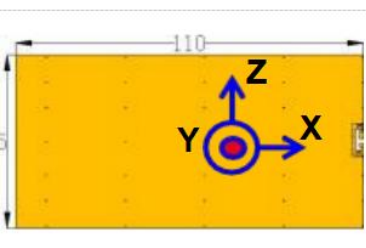
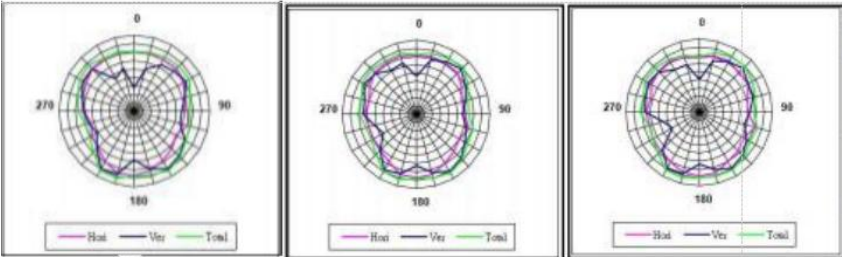
Return Loss & Radiation

Return Loss

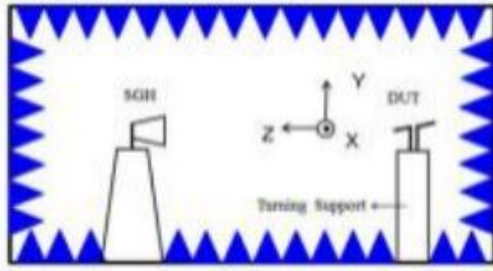


Frequency(MHz)	S11 (dB)
2400	- 10.77
2450	-24.81
2484	- 10.243

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



Taping Specifications