RAIN

Application:

WLAN, 802.11b/g, Bluetooth, WLAN, etc…

Features

SMD, high reliability, ultra Impact, Omni-directiona

Part number Information

RANT	2012	F	245	C	07
(A)	(B)	(C)	(D)	(E)	(F)

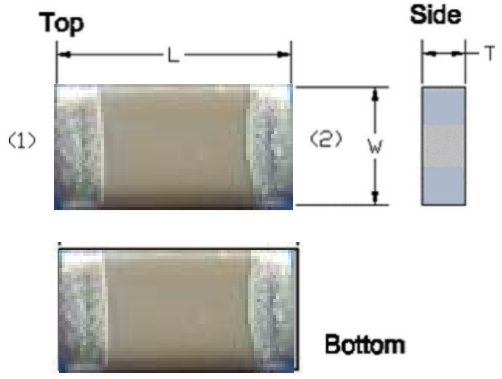
(A)Product Type	Chip Antenna
(B) Size Code	2.0x1.2mm(+-0.2mm)
(C) Material	High K material
(D) Frequency	2.4 ~ 2.5GHz
(E) Feeding mode	PIFA & Single Feeding
(F) Antenna type	Type=07

Electrical Specification

Working Frequency Range	2400 ~2484 MHz
Bandwidth	84 (Min.)
Peak Gain	1.7 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+-0.10
W	1.20+-0.10
T	0.65+-0.10

No.	Terminal Name
1	Feeding/GNG
2	GND

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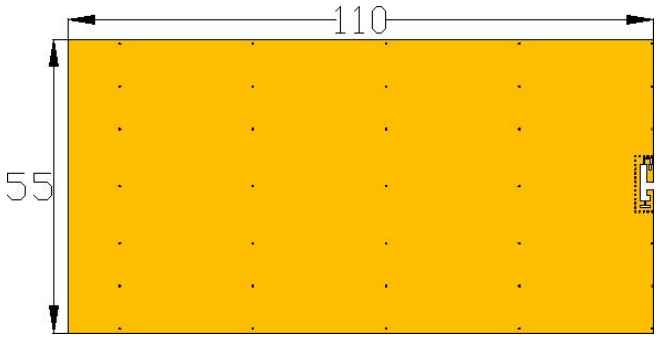
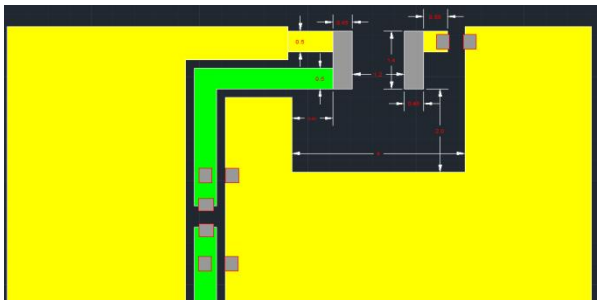
lead-free RoHS compliant

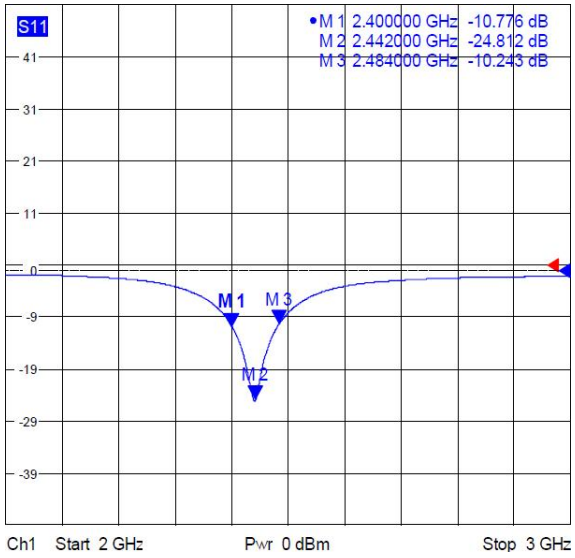
Evaluation Board Reference

PCB Dimension	Antenna Layout Reference Unit :mm
	

Electrical Characteristics

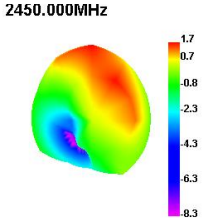
Return Loss & Radiation

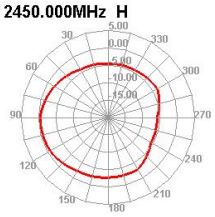
Return Loss

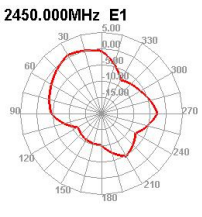


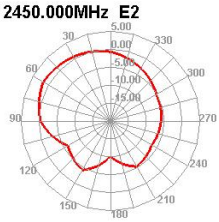
Frequency(MHz)	S11 (dB)
2400	-10.77
2450	-24.81
2484	-10.243

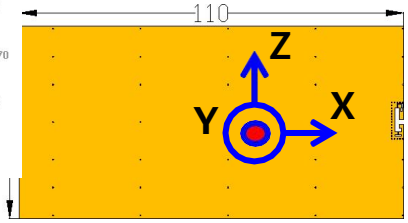
Radiation



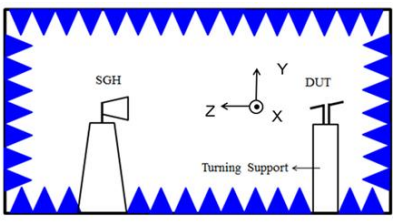








	2400MHz	2450MHz	2500MHz
Efficiency	70.56%	75.25%	71.01%



2.4GHz 2012 Chip Antenna: RANT2012F245C07