

Application:

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

Features

SMD, high reliability, ultra Impact, Omni-directional

Part number Information

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



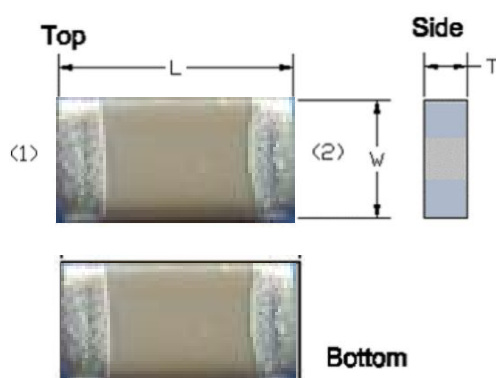
(A)Product Type	Chip Antenna
(B) Size Code	2.0x1.2mm(+/-0.2mm)
(C) Material	High K material
(D) Frequency	2.4 ~ 2.5GHz
(E) Feeding mode	PIFA & Single Feeding
(F) Antenna type	Type=07

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(°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+/-0.10
W	1.20+/-0.10
T	0.65+/-0.10

No.	Terminal Name
1	Feeding/GNG
2	GND

咏成國際科技有限公司

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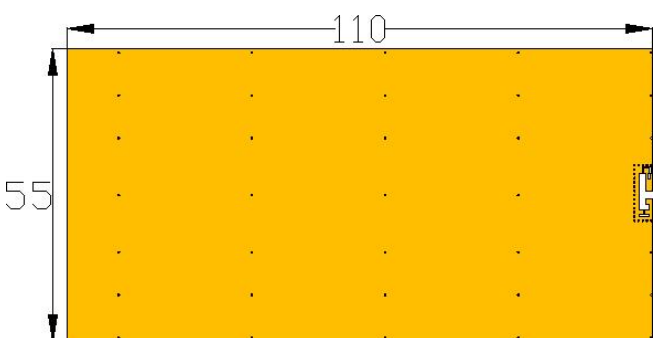
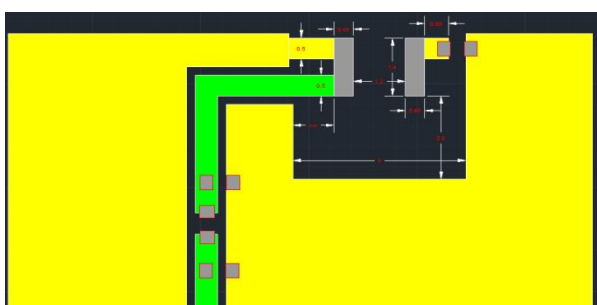
RAIN International Technology Co., Ltd.

7 / F, Building F, Zhichuang Park, Tong 'an, Gushu, Shenzhen

2.4GHz 2012 Chip Antenna: RANT2012F245C07



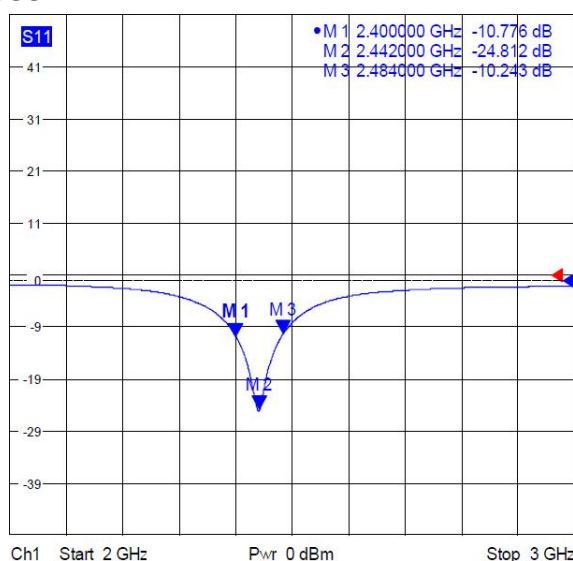
Evaluation Board Reference

PCB Dimension	Antenna Layout Reference	Unit :mm
		

Electrical Characteristics

Return Loss & Radiation

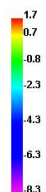
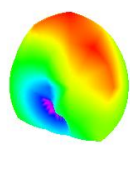
Return Loss



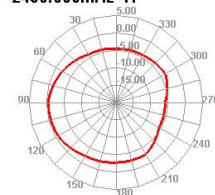
Frequency(MHz)	S11 (dB)
2400	-10.77
2450	-24.81
2484	-10.243

Radiation

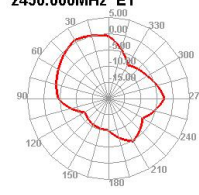
2450.000MHz



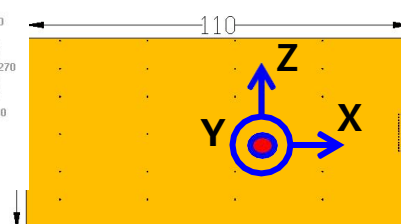
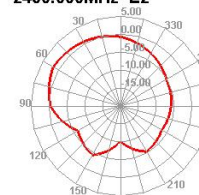
2450.000MHz H



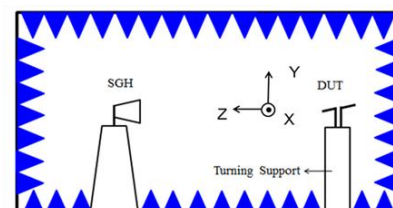
2450.000MHz E1



2450.000MHz E2



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



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