

Application:

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

Features

SMD, high reliability, ultra Impact, Omni-directiona

Part number Information

<u>RANT</u>	<u>2012</u>	<u>E</u>	<u>245</u>	<u>C</u>	<u>07</u>
(A)	(B)	(C)	(D)	(E)	(F)

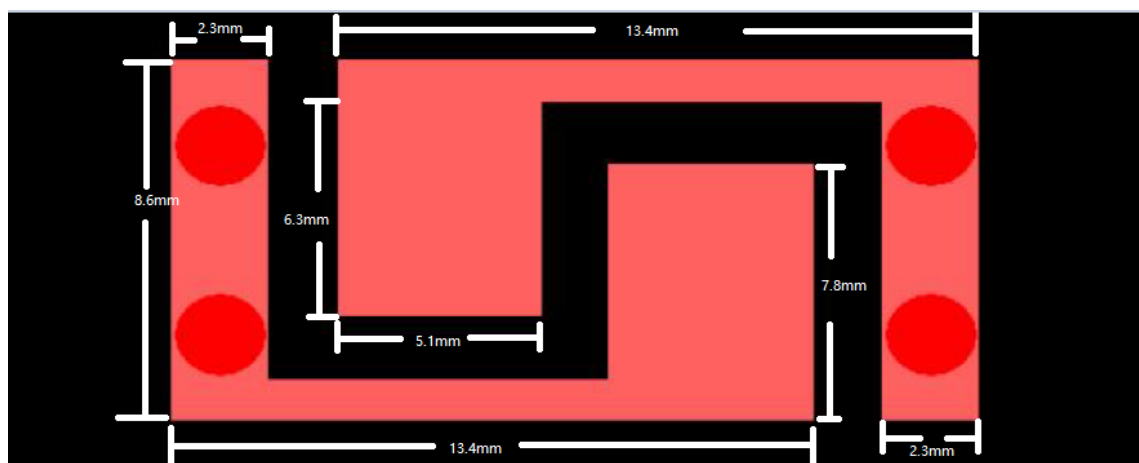
(A)Product Type	PCB Antenna
(B) Size	13.4*8.6mm(+0.2mm)
(C) Material	High K material
(D) Frequency	2.4 ~ 2.5GHz
(E) Feeding mode	PIFA & Single Feeding
(F) Antenna type	Type=07

Electrical Specification

Working Frequency Range	2400 ~2484 MHz
Bandwidth	84 (Min.)
Peak Gain	1.24 dBi (Peak)
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.

Antenna Layout & module on the system board



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RAIN International Technology Co., Ltd.

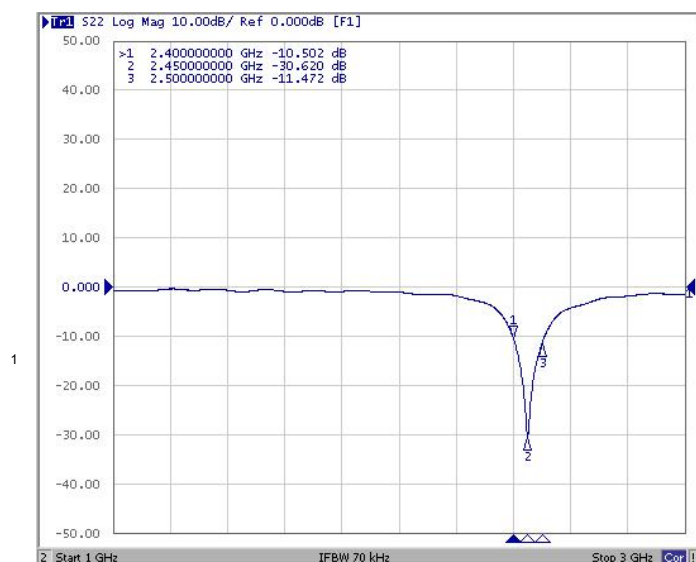
7 / F, Building F, Zhichuang Park, Tong 'an, Gushu, Shenzhen



Electrical Characteristics

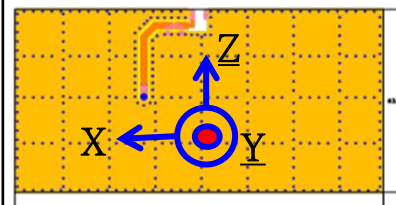
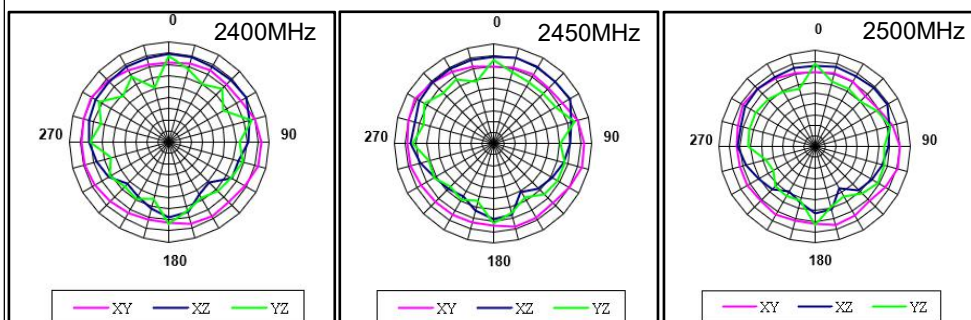
Return Loss & Radiation

Return Loss



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

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

