

2.4GHz 3216 Chip Antenna: RANT3216F245T01

Application:

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

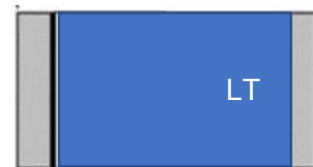
Features

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

Part number Information

RANT 3216 F 245 T 01
(A) (B) (C) (D) (E) (F)

(A)Product Type	Chip Antenna
(B) Size Code	3.2x1.6mm(±0.2mm)
(C) Material	High K material
(D) Frequency	2.4 ~ 2.5GHz
(E) Feeding mode	PIFA & Single Feeding
(F) Antenna type	Type=01

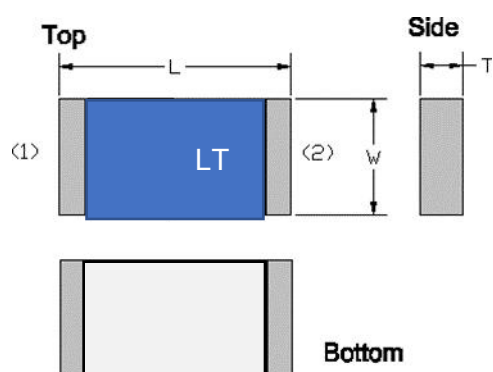


Electrical Specification

Working Frequency Range	2400 ~2500 MHz
Bandwidth	120 MHz (Min.)
Peak Gain	1.24dBi (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	3.20 ± 0.20
W	1.60 ± 0.20
T	0.45 ± 0.20

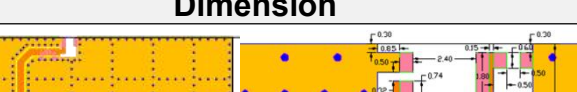
No.	Terminal Name
1	Feeding/GNG
2	GND/Feeding

Manufacturer : WOFONE TECHNOLOGY LIMITED

Add:RM18, 27/F, Ho King Comm CTR, 2-16 Fayuen ST, Mongkok Kowloon, HongKong, China



Evaluation Board Reference

PCB	Antenna Layout Reference
Dimension 	Unit :mm 

Electrical Characteristics

Return Loss & Radiation

Return Loss

Point	Frequency (GHz)	S11 (dB)
1	2.400	-10.502
2	2.450	-30.620
3	2.500	-11.472

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

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