

2.4GHz 5020 Chip Antenna: SRD5020R2G45

Application:

ISM band, Telemeter, Telemetry, Bluetooth, zigbee, WI-FI, keyless entry system...

Bluetooth/Wireless LAN/Home RF

ISM band 2.4GHz applications

Features

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

Part number

SRD 5020 R 2G45
(1) (2) (3) (4)

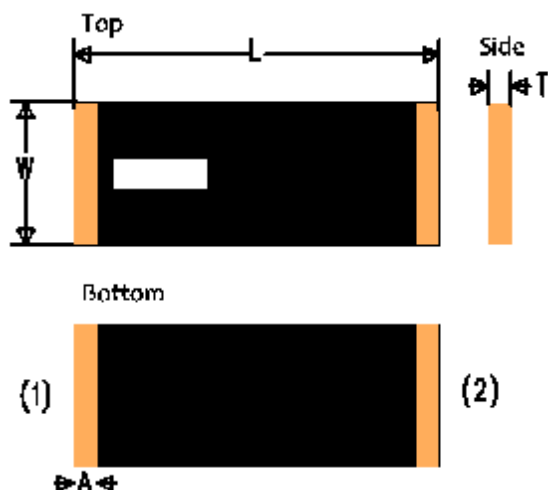
(1) Product Code	SRD
(2) Product Size	5.0mm × 2.0mm
(3) Version type	Release
(4) Frequency	2.45GHz

Electrical Specification

Centre Frequency	2400-2500MHz
Peak Gain	2.7dBi (XZ-V)
Impedance	50 Ohm
Return loss	10 dB (Min.)
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Operation Temperature(°C)	-40 ~85°C

The specification is defined on EVB.

Dimension and Terminal Configuration



Dimension (mm)	
L	5.0+/-0.1
W	2.0+/-0.1
T	1.2+/-0.1
A	0.3+/-0.1

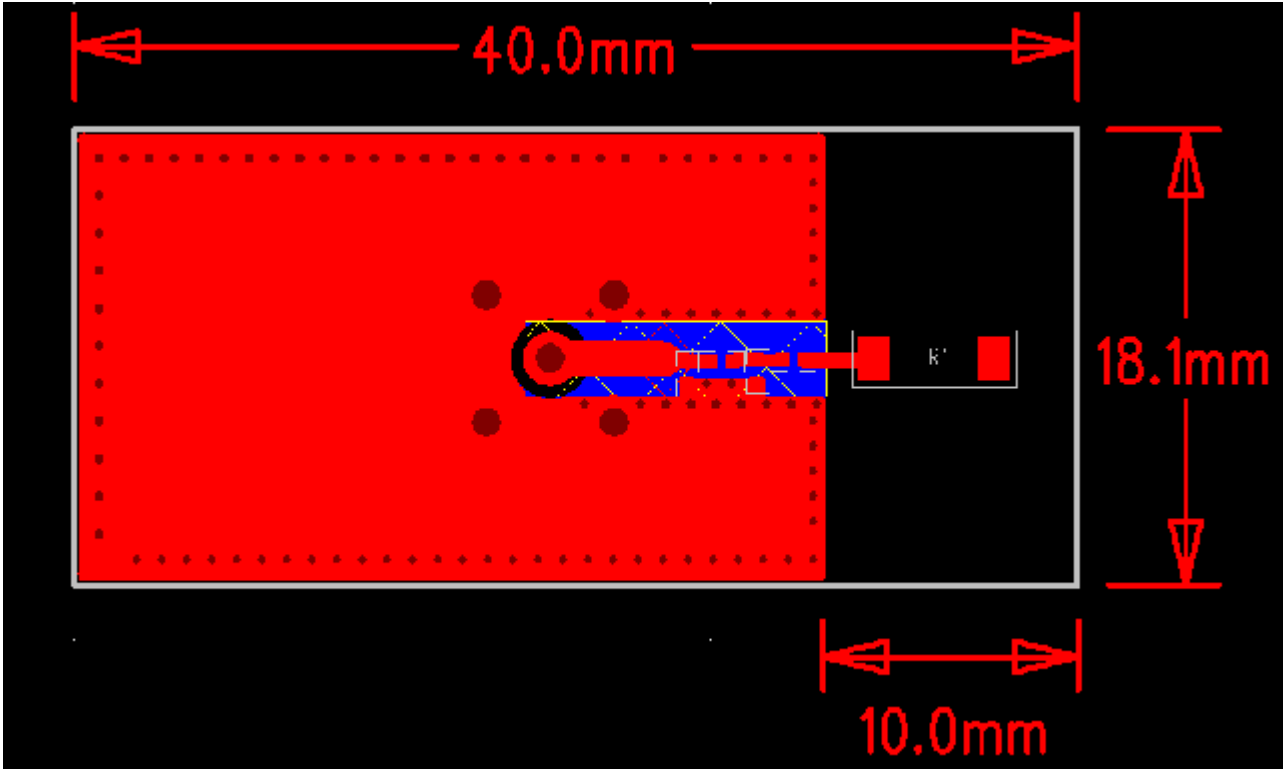
No.	Terminal Name
1	Feeding
2	Soldering

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Evaluation Board Reference

PCB Dimension & Antenna Layout Reference

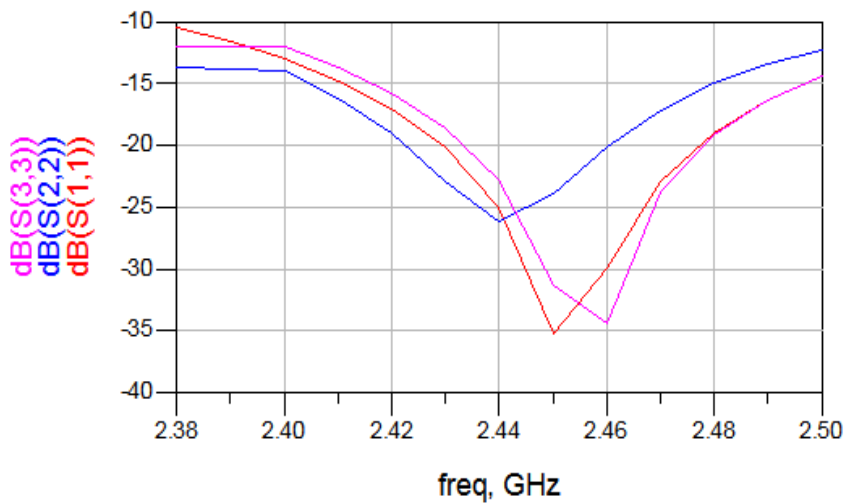
Test Board



unit :mm

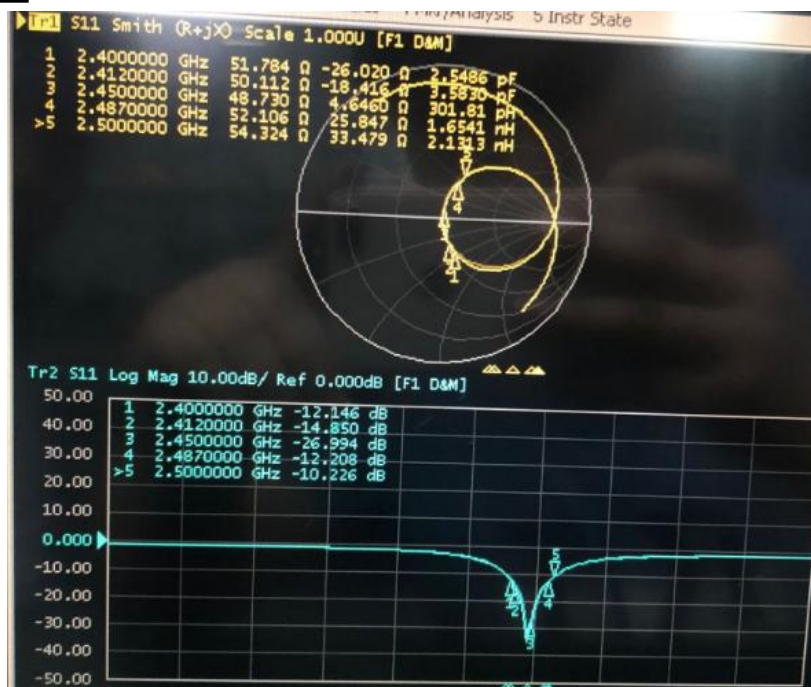
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Electrical Characteristics



frequency (MHz)	S11 (dB)
2400-2500MHz	-33.1

Test Report



Frequency (MHz)	S11(dB)	Efficiency	Gain(dBi)
2400	-12.1	55%	2.9
2450	-26.9	64%	3.2
2500	-10.2	54.2%	2.9

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Revision History

Revision	Date	Content
1	2019/3/20	New issue