

# ANPROVANLSHEET

**RFECA Series – RoHS Compliance**

**On-board Antenna**

**Halogens Free Product**

**2.4 GHz ISM Band Working Frequency**

**P/N: MS-ANT-F-S1**

\*Contents in this sheet are subject to change without prior notice.

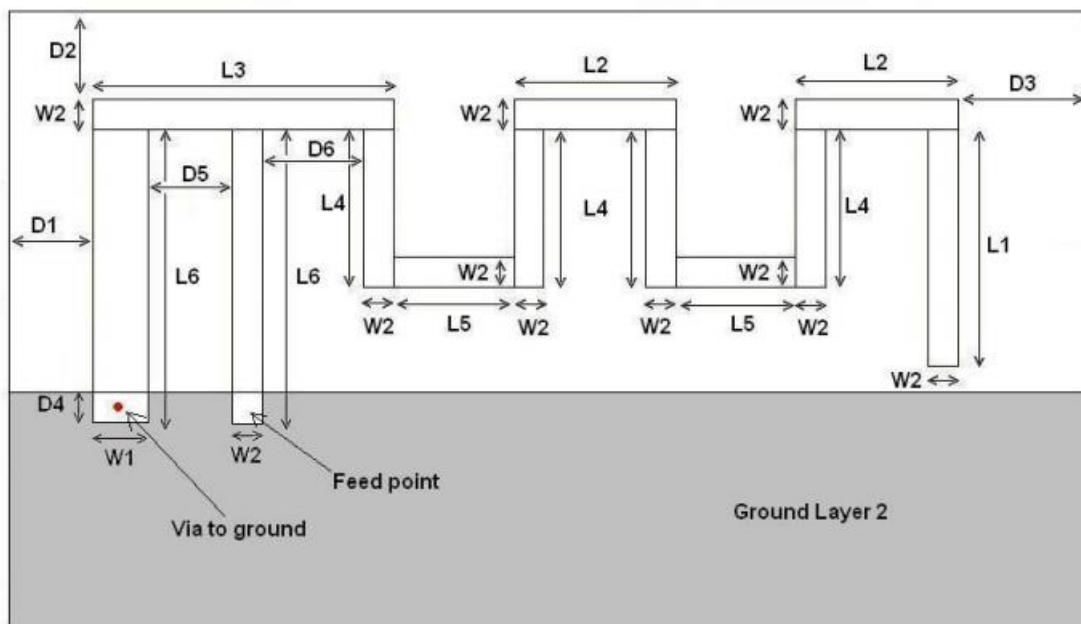
## FEATURES

1. a small dimension of 11.4 X 5.4 mm<sup>2</sup>
3. High stability in Temperature / Humidity Change.
4. Superb performance to place on the middle of PCB edge and excellent peak/ average gain observed by field test application.

## APPLICATIONS

1. ISM Band 2.4GHz applications.
2. Bluetooth..

## CONSTRUCTION



## DIMENSIONS

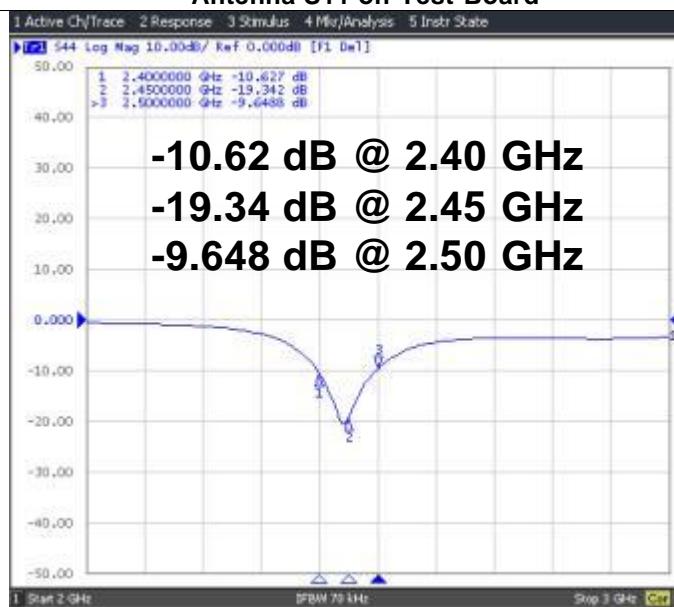
L1	3.94 mm
L2	2.70 mm
L3	5.00 mm
L4	2.64 mm
L5	2.00 mm
L6	4.90 mm
W1	0.90 mm
W2	0.50 mm
D1	0.50 mm
D2	0.30 mm
D3	0.30 mm
D4	0.50 mm
D5	1.40mm
D6	1.70 mm

TYPE 1 ELECTRONIC CHARACTERISTICS

Item	Specification
Working Frequency Range	2.4GHz~2.4835GHz (Note-1)
Gain	2.64 dBi (max)
VSWR	2.1 max.
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Impedance	50Ω

\*Note 1. Central Frequency should be defined after customers' application approval.

Antenna S11 on Test Board



Antenna VSWR on Test Board



### RADIATION PATTERN

Radiation Pattern and Gain were dependent on measurement board design. The specification of MS-ANT-F-S1 antenna was measured based on the PCB size and installation position

