

APPROVAL SHEET

RFECA Series – RoHS Compliance

CERAMIC ANTENNA

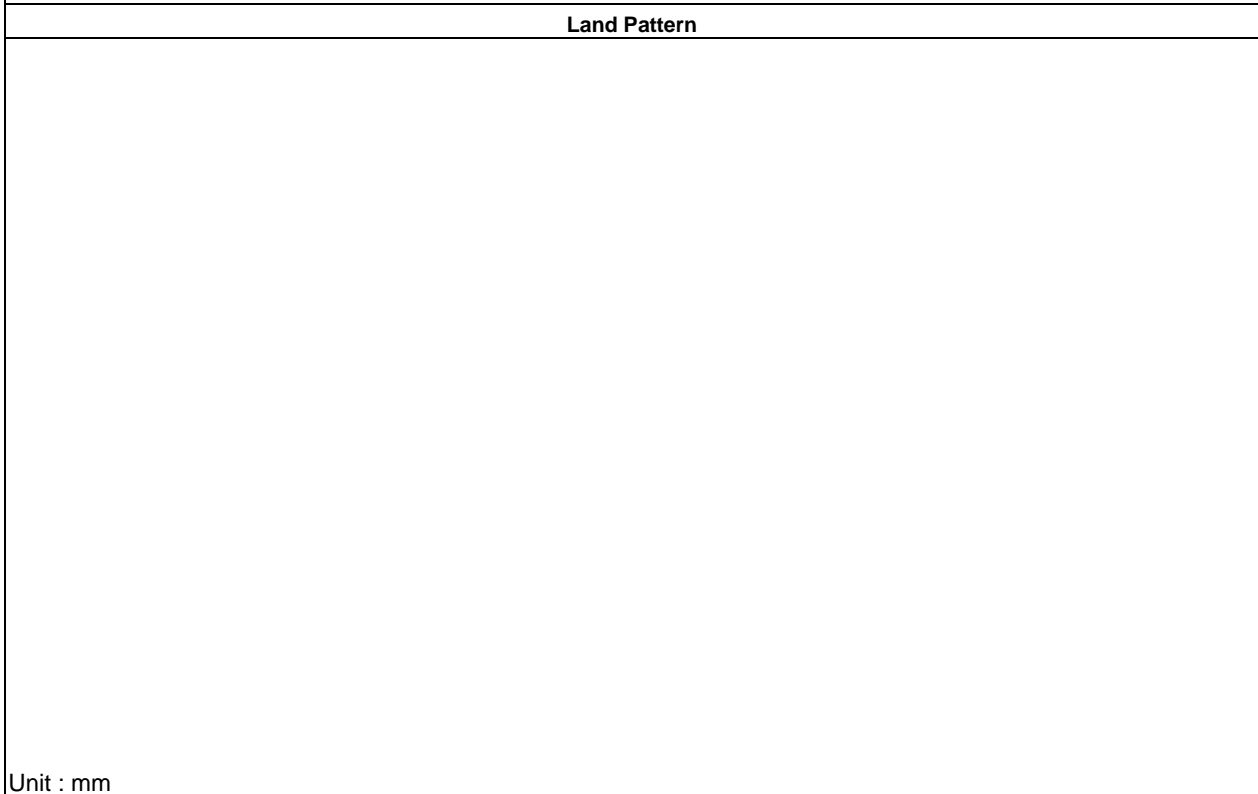
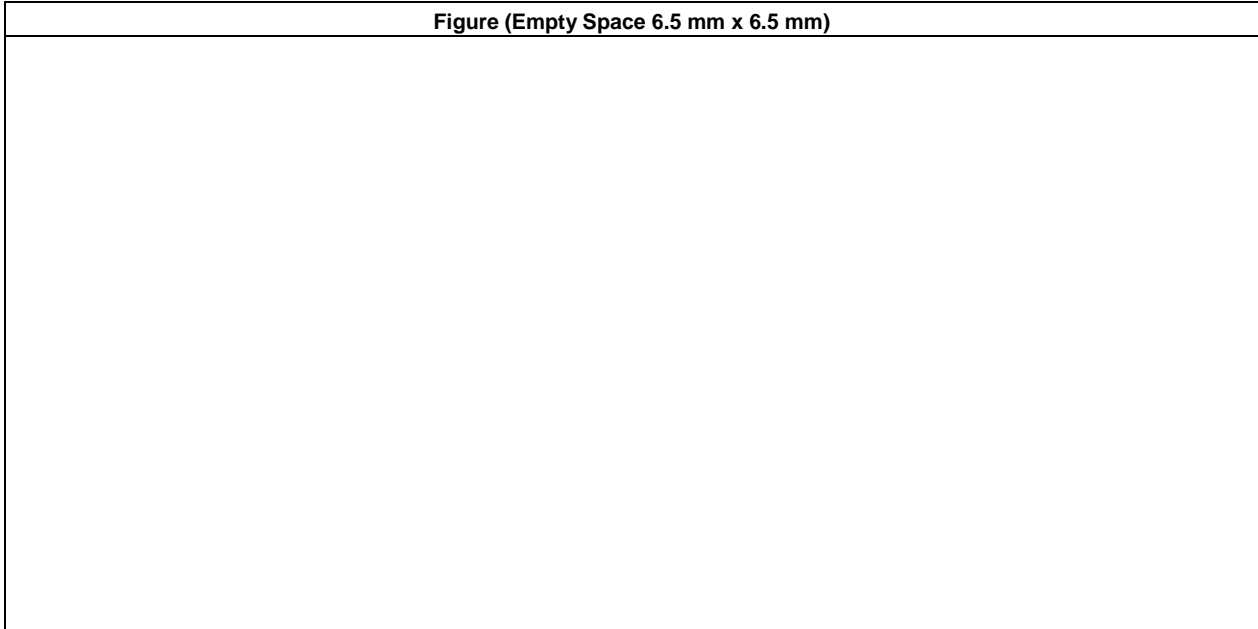
Halogens Free Product

5 GHz ISM Band Applicatin

P/N: RFECA3216060K1T

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

SOLDER LAND PATTERN DESIGN

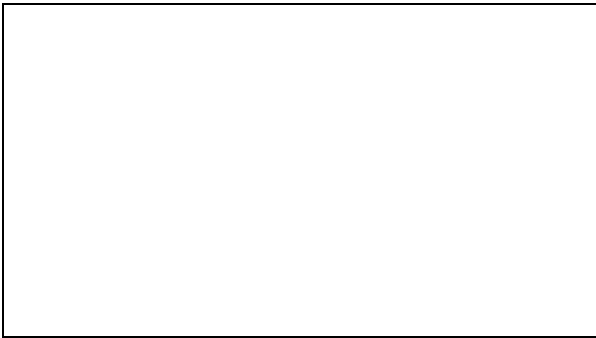


TYPE 1 ELECTRONIC CHARACTERISTICS

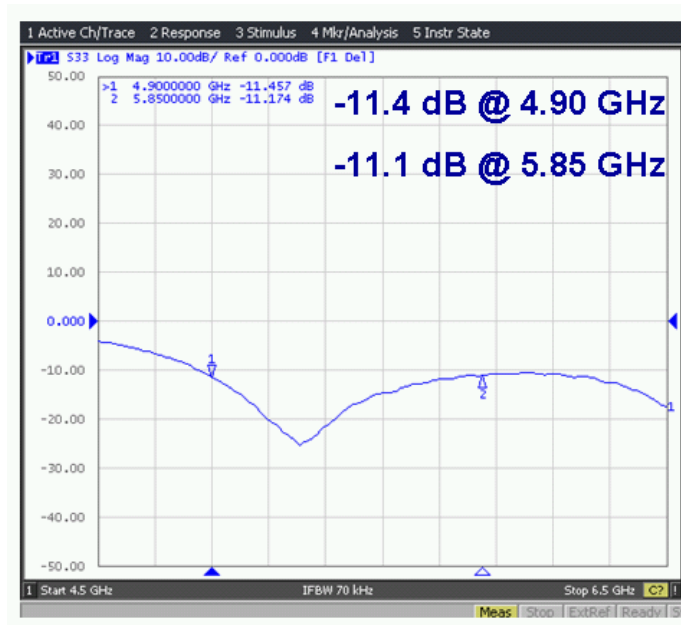
Item	Specification
Working Frequency Range	4.9GHz~5.85GHz (Note-1)
Gain	2.8 dBi (Typical)
VSWR	2 max.
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Impedance	50Ω

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

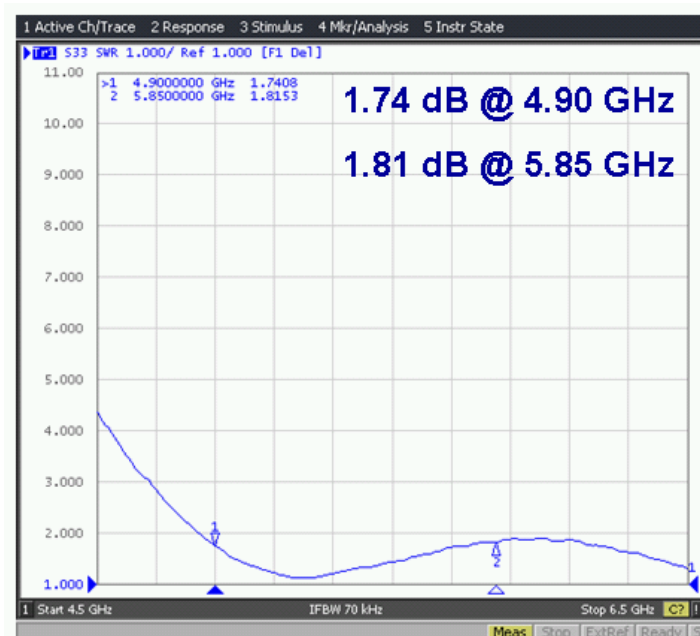
Antenna on Test Board (Thickness 0.8mm)



Antenna S11 on Test Board

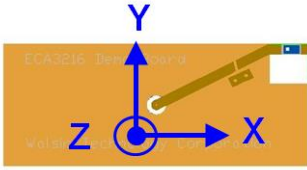


Antenna VSWR on Test Board



RADIATION PATTERN

Radiation Pattern and Gain were dependent on measurement board design. The specification of RFECA3216060K1T antenna was measured based on the PCB size and installation position as shown in the below figure Test Board.



	Vertical	Horizontal
Y - Z Plane Average Gain= -0.751 dBi	<p>Peak Gain = -0.55 dBi Average Gain = -4.9 dBi</p>	<p>Peak Gain= 0.73 dBi Average Gain=-2.86 dBi</p>
X - Z Plane Average Gain= 1.233 dBi	<p>Peak Gain= 2.86 dBi Average Gain= 0.86 dBi</p>	<p>Peak Gain= -2.49 dBi Average Gain= -9.61 dBi</p>
X - Y Plane Average Gain= -0.744 dBi	<p>Peak Gain= -7.42 dBi Average Gain= -11.78 dBi</p>	<p>Peak Gain= 2.3 dBi Average Gain= -1.1 dBi</p>