

Antenna Describe

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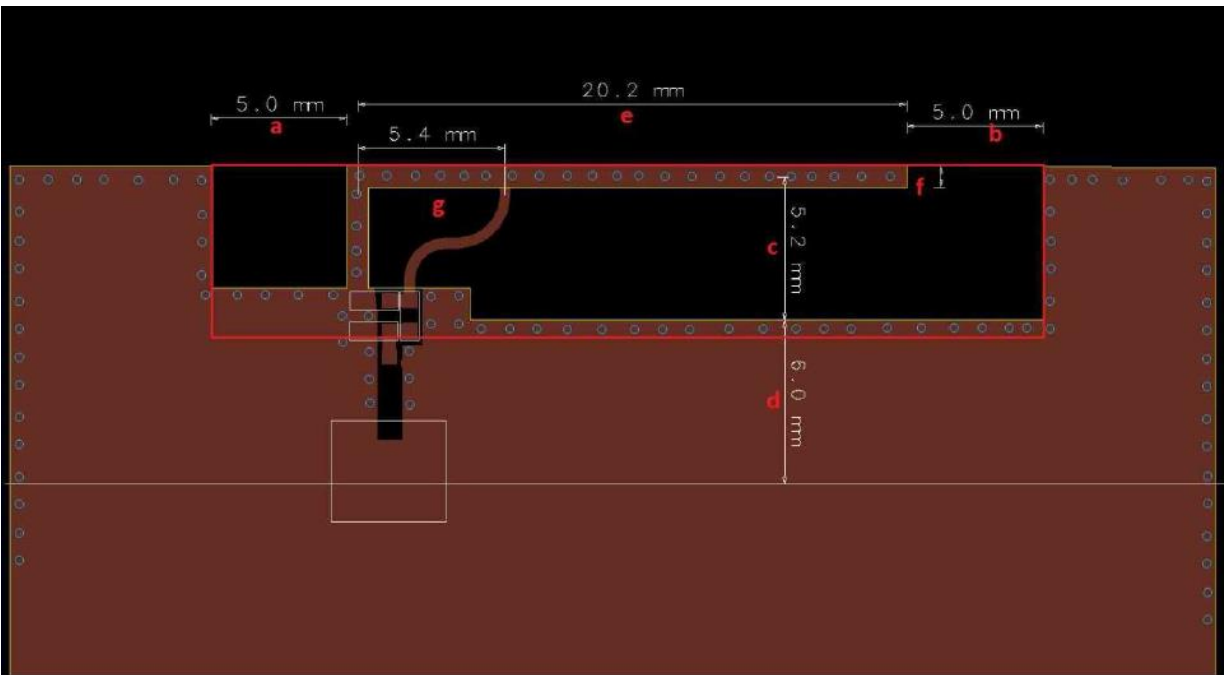
No	Parameter	Specification
1	Antenna	PCB
2	Return Loss	<-10dB
3	Antenna Gain	1.5dBi
4	Frequency Range	2400MHz -2500MHz
5	Antenna efficiency	-3 ~ -1.5 dB
6	Connector Type	Direct
7	Location of mearement (company name)	Renesas Electronics – AN-B-027
8	Azimuth	Omni-directional
9	Impedance	50 Ω
10	Operating Temperature	-40~105°C

Manufacturer: Visual Note s.r.l.
AddressVia Carlo Imbonati 72, 20159 Milano ITALY
Model:MLD-ANT

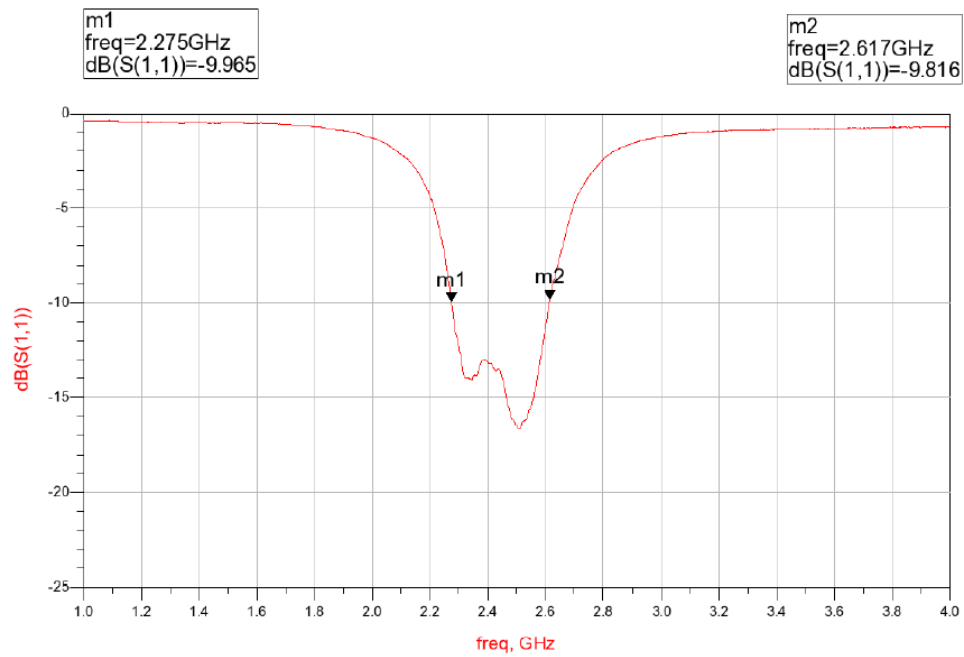
2: External View Drawing

Picture of antenna
Renesas

Type of Antenna: PCB Antenna– Full Size Printed IFA, 1mm Substrate



3. Typical Free Space Efficiency and gain

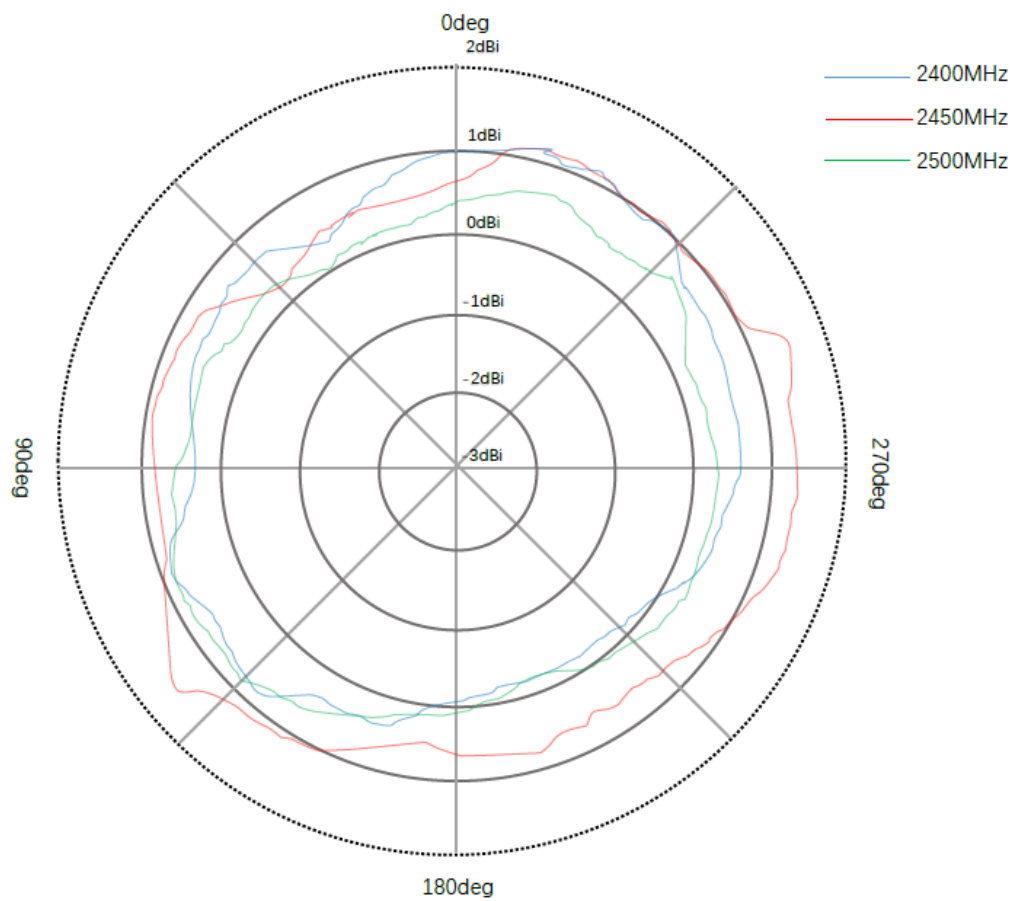


4. Test data

Frequency (MHz)	Efficiency (%)	Average Gain (dB)	Peak Gain (dBi)
2400	-2.1	0.95	1.11
2450	-1.5	1.43	1.50
2500	-3.0	0.91	1.00

5. Typical Radiation Pattern

Horizontal



Vertical

