

# Antenna Describe

## 1: Antenna Describe

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 $\Omega$
10	Operating Temperature	-40~105°C

Manufacturer: Visual Note s.r.l.

Address Via Carlo Imbonati 72, 20159 Milano ITALY

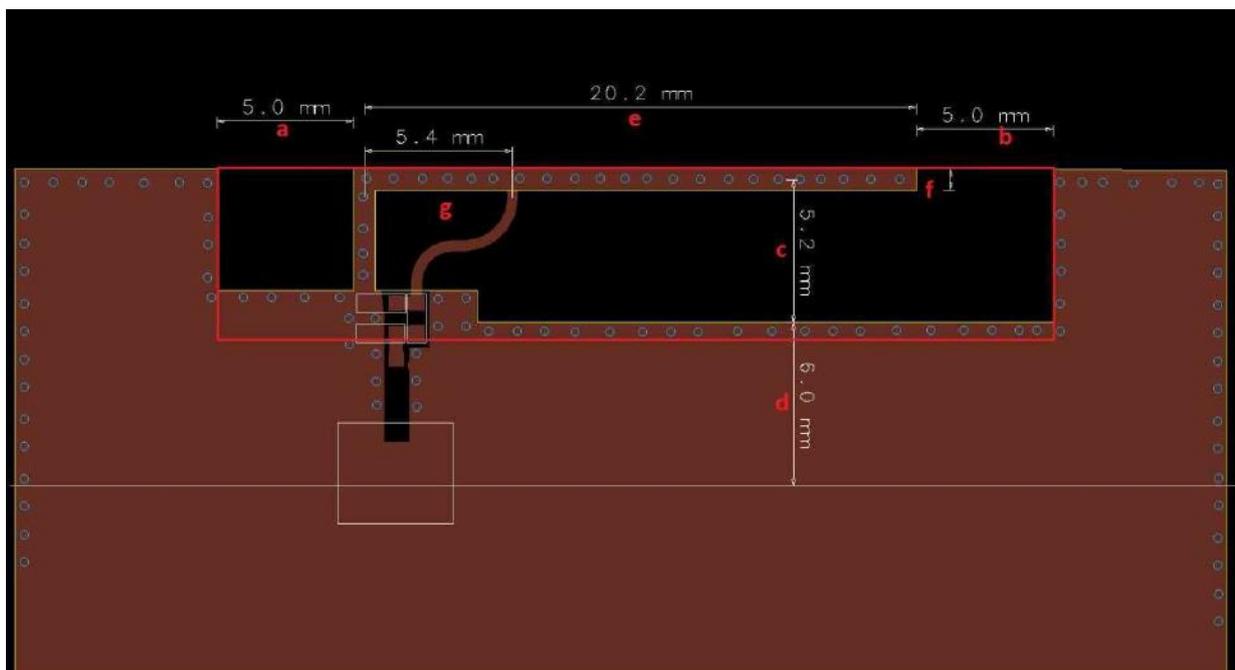
Model:MLD-ANT

## 2: External View Drawing

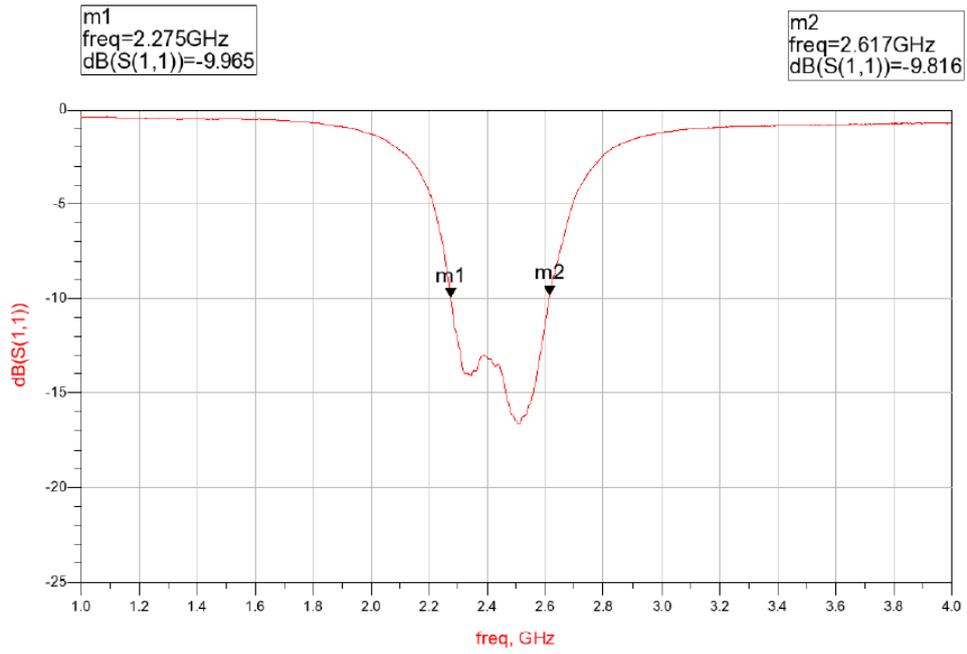
Picture of antenna

Renesas

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



### 3. Typical Free Space Efficiency and gain

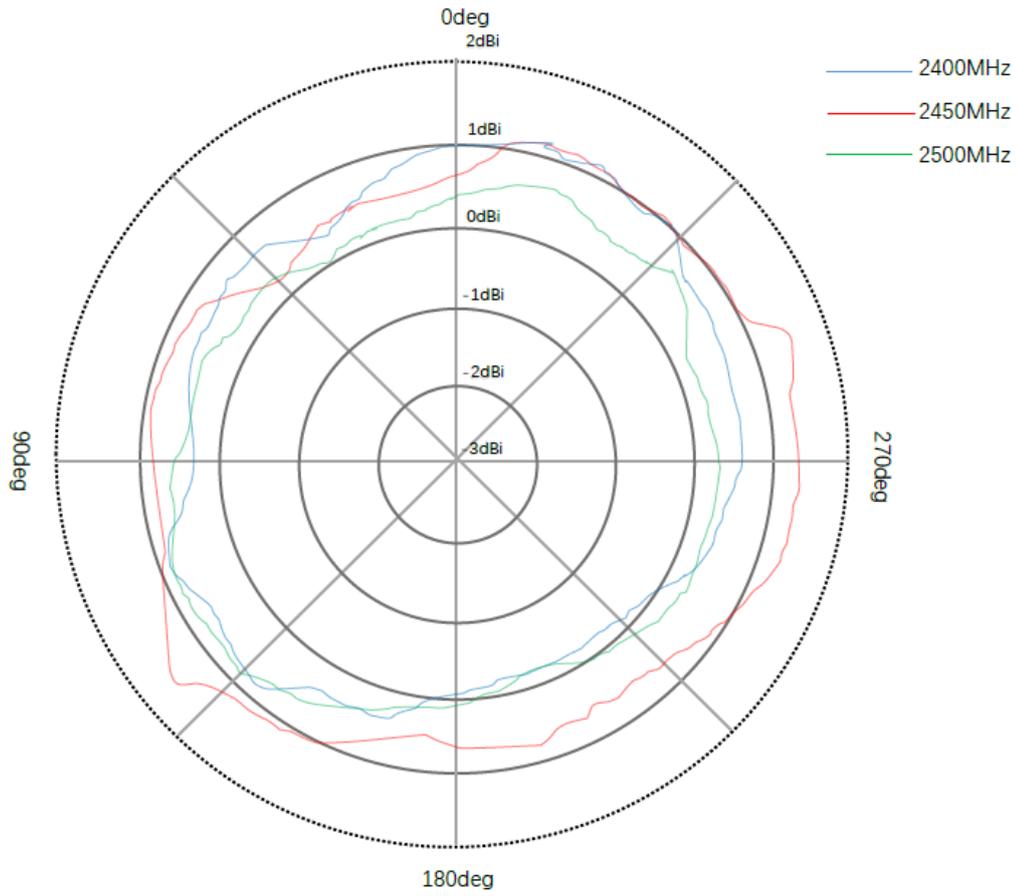


### 4. Test data

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

