MD1506-12N

Multilayer Chip Antenna for

Extra Wide Band

(Preliminary Information)

MD1506-12N Multilayer Chip Antenna

◆ Features

- Size : 15.0mm(L)X6.5mm(W)X1.63mm(H)
- Light weight and low profile
- Omni-directional in azimuth

Lead (Pb) Free

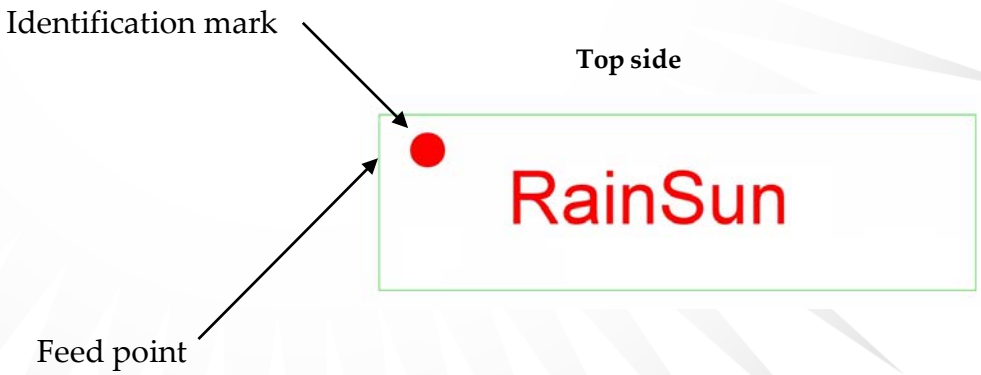
◆Applications

- Broad Band wireless communications
- GSM/DCS of 890-960, 1710-1880 MHz
- CDMA/PCS of 825-894, 1820-1990 MHz

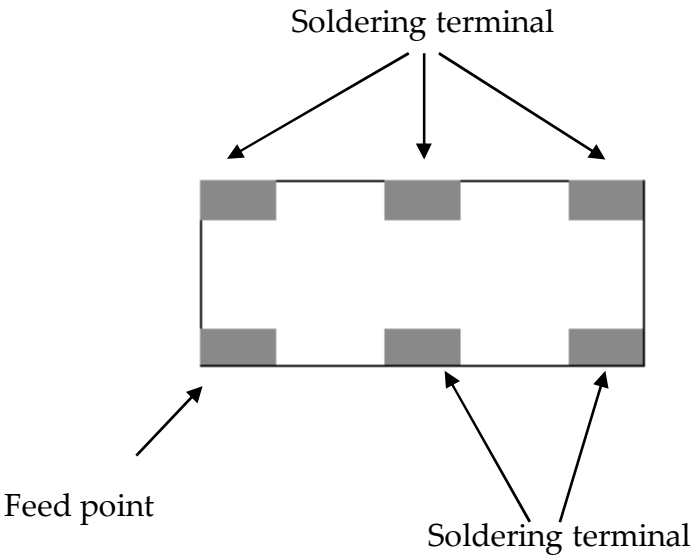
Specifications

Frequency range	820~1950MHz
Peak gain	-0.3 dBi
Operation temperature	-40 ~ +85 ˚C
Storage temperature	-40 ~ +100 ˚C
VSWR	2.5 (Max)
Input Impedance	50 Ohm
Power handling	5W (Max)
Bandwidth	1130MHz (typ.)
Azimuth beam width	Omni-directional
Polarization	Linear
Soldering pad	Natural tin

Pin configuration

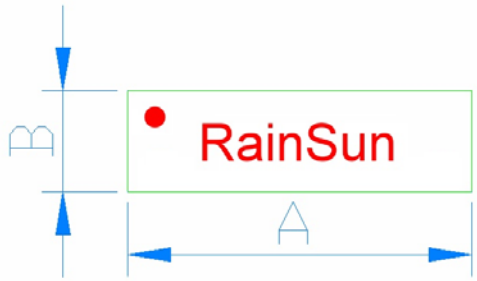


Bottom side

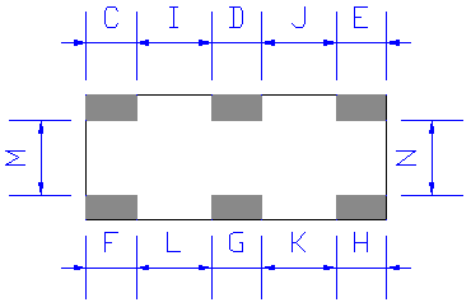


Dimensions

Top view

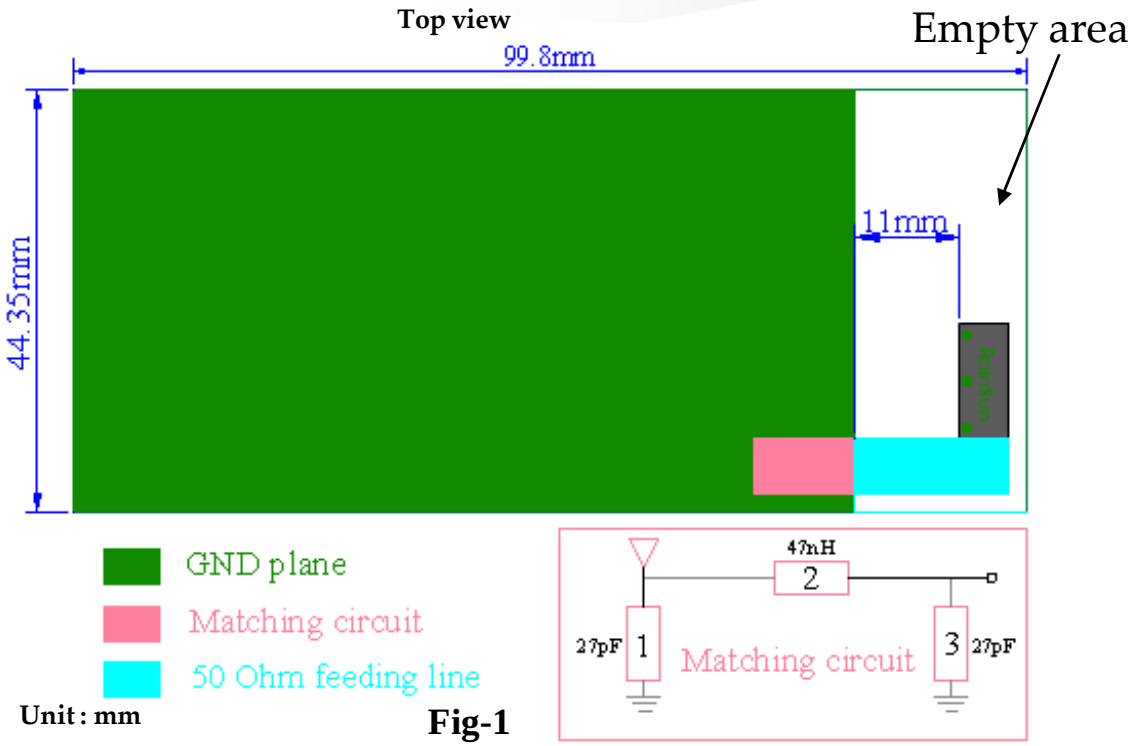


Bottom view



Symbol	Dimensions (mm)
A	15.0 ± 0.1
B	6.5 ± 0.1
C	2.0 ± 0.1
D	2.0 ± 0.1
E	2.0 ± 0.1
F	2.0 ± 0.1
G	2.0 ± 0.1
H	2.0 ± 0.1
I	4.5 ± 0.1
J	4.5 ± 0.1
K	4.5 ± 0.1
L	4.5 ± 0.1
M	4.5 ± 0.1
N	4.5 ± 0.1

Recommended Test Board Pattern

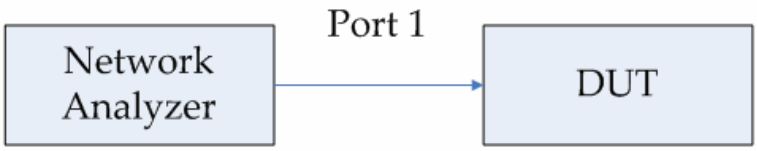


Unit : mm

Fig-1

Board thickness : 0.8mm
Board material : FR4

Testing Setup



Measurement

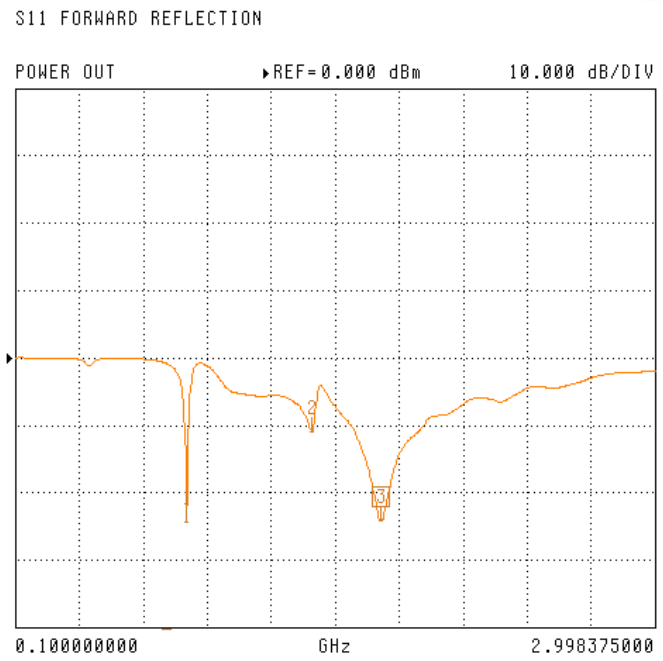
Testing Instrument:
Anritsu 37369C VNA(Vector Network Analyzer)

VNA calibrate with 1 path reflection only calibration sequence on test board feed point.

The test board dimension and it's layout is the same as Fig-1.

Typical Electrical Characteristics

Return loss



Smith Chart