Pulse A YAGEO Company | LARSEN Antennas

TECHNICAL DATA SHEET

Description: 8010 GPS/Galileo&GLONASS Chip Antenna

PART NUMBER: ANT8010LL05R1516A

Features:

- Size : 8.0x1.0x1.0 mm
- Support GPS/Galileo & GLONASS system
- High radiation efficiency
- Reflow process compatible (SMD only)
- RoHS compliant

Applications:

- Tablet (for chip)
- Navigation device
- Telematics box
- Fleet management

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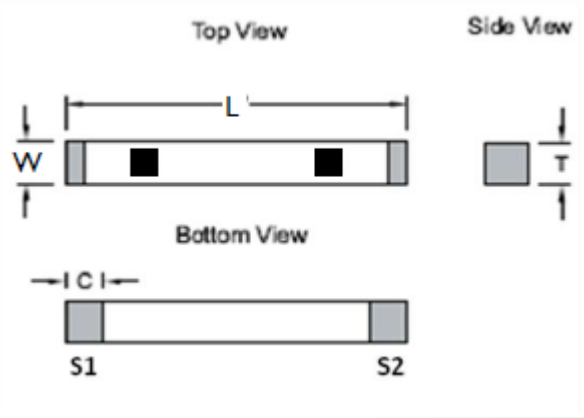
ELECTRICAL SPECIFICATIONS

Working Frequency	1.575 / 1.602 GHz
Bandwidth	80 MHz(Typ.)
Return Loss	10.0 dB Min
Polarization	Linear
Azimuth Beamwidth	Omni-directional
Peak Gain	GPS / Galileo 1.53 dBi (Typ.) GLONASS 1.69 dBi (Typ.)
Impedance	50 Ω
Operating Temperature	- 40~105 ℃
Maximum Power	1 W
Termination	Ni / Sn (Environmentally-Friendly Leadless)
Resistance to Soldering Heats	260℃ , 10sec.

NOTE
1. The specification is defined on Pulse evaluation board

MECHANICAL DRAWING

	Dimension
L (mm)	8.00 ±0.20
W (mm)	1.00 ±0.20
T (mm)	1.00 ±0.20
A (mm)	0.90 ±0.15



Terminal name	Function
S1	Feeding / Soldering Point
S2	Soldering / Feeding Point

RoHS COMPLIANT

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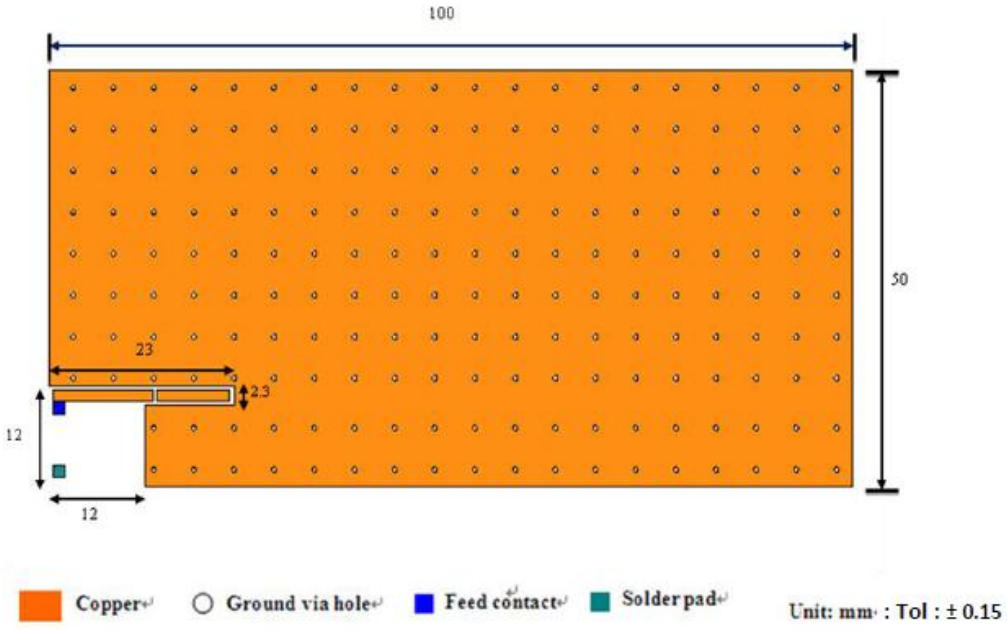
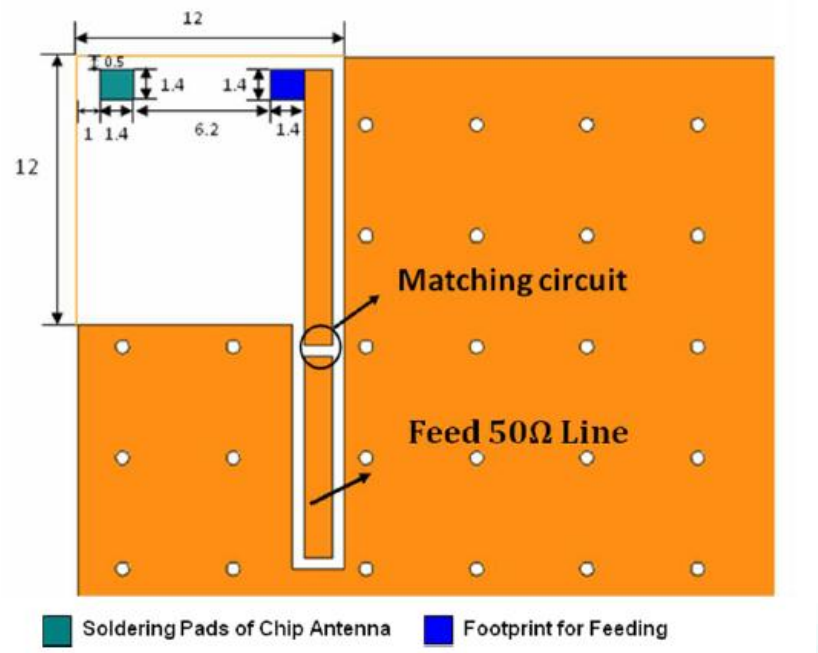
REFERENCE DESIGN OF EVALUATION BOARD



Outlook and dimension of evaluation board



Details of soldering Pad

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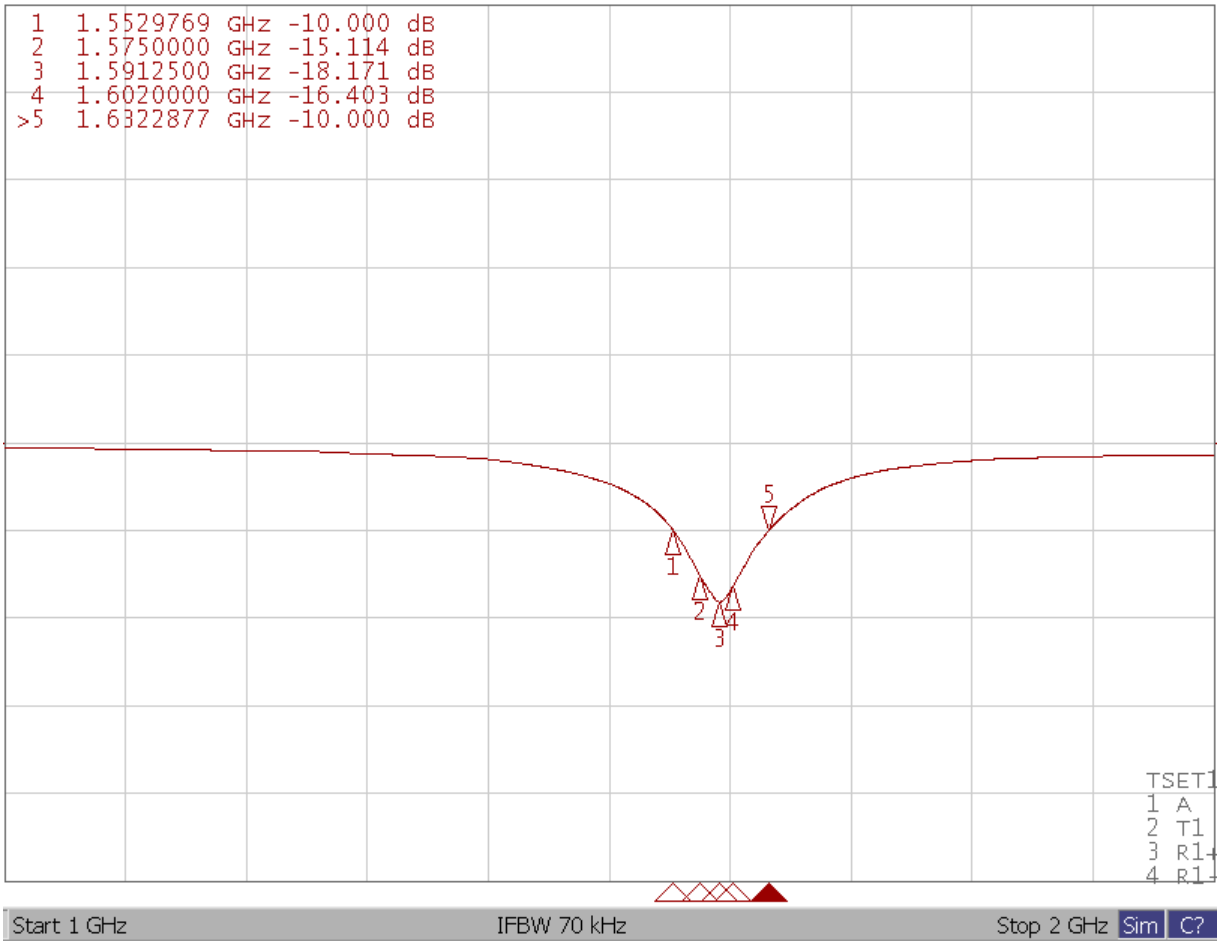
ELECTRICAL PERFORMANCES



Return loss

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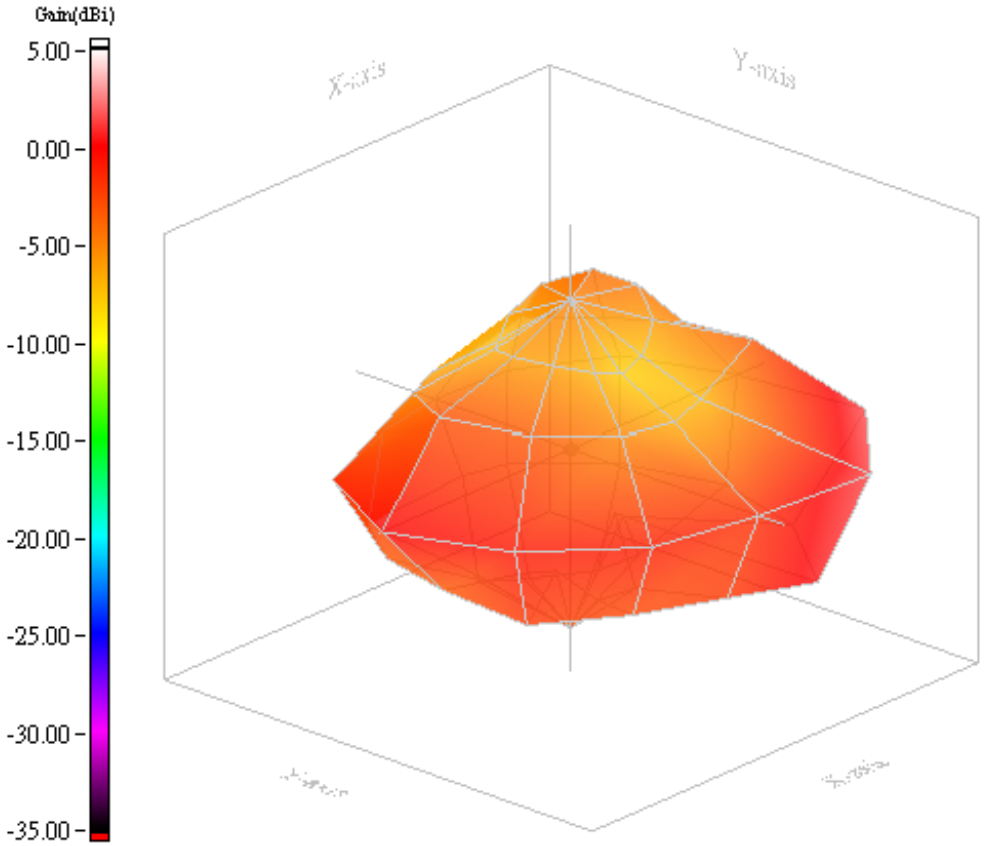
ELECTRICAL PERFORMANCES



Radiation Pattern (Frequency = 1575MHz)

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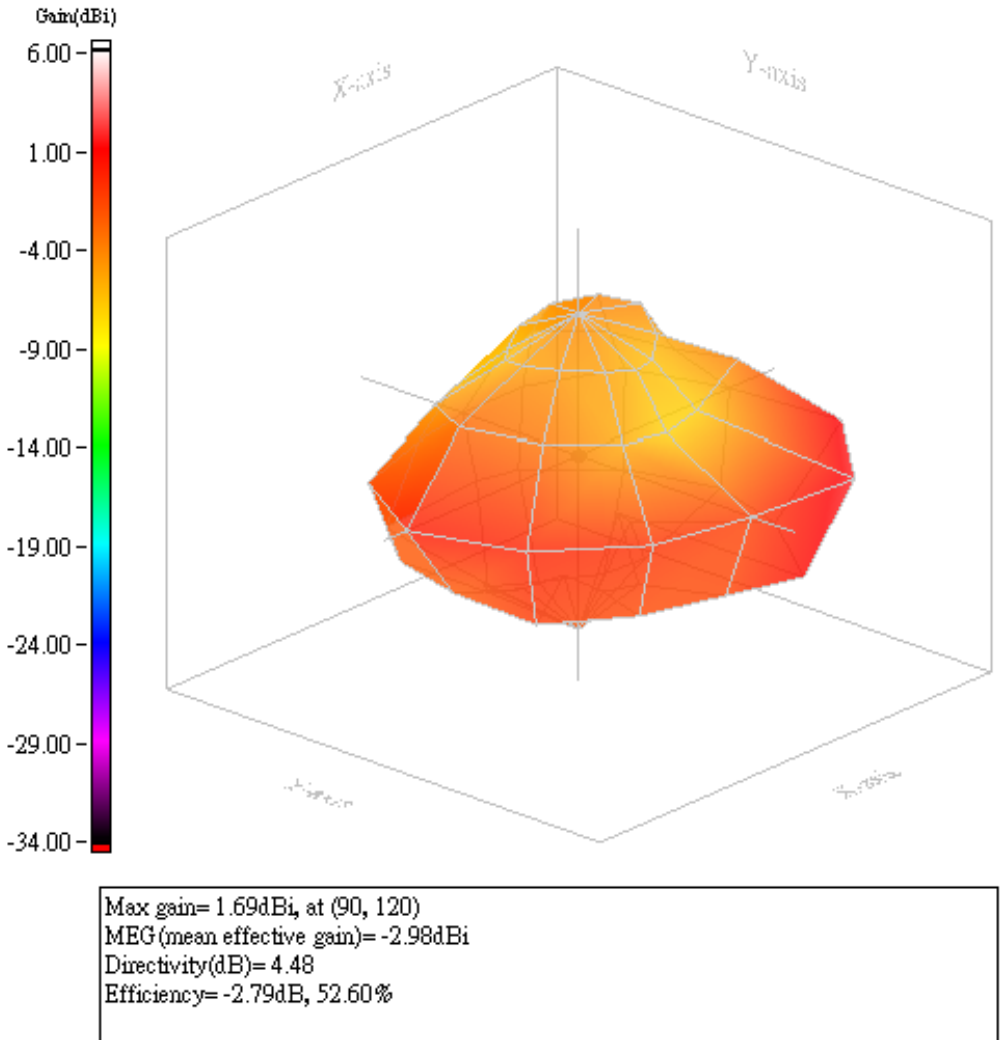
ELECTRICAL PERFORMANCES



Radiation Pattern (Frequency = 1602MHz)