

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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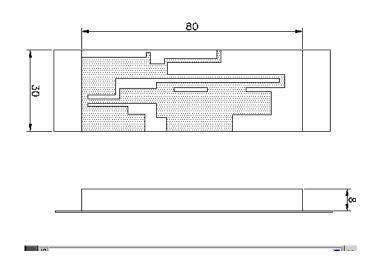






GSM / UMTS / 3G / Cellular Phone / LTE / WIMAX 2.5GHz Omni Directional PIFA Type Embedded Antenna





Features

- Superior broadband performance
- Small design footprint
- Easy installation
- RoHS compliant

Applications

- Cellular phone / LTE / WIMAX full band
- Notebook / Laptop / UMPC
- PDA / Smart phone / iPhone
- Bluetooth devices
- Other handheld devices (Mobile, TV, USB...)

Key Specifications - Electrical

| Impedance: | 50 ohm |
|---------------|--|
| Gain: | 0 / 2 / 2dBi |
| S/W/R: | ≤ 3.0 |
| Frequency: | 790 - 960MHz 1710 - 2170MHz 2500 - 2700MHz |
| Radiation: | Omni Directional |
| Polarization: | Vertical |

Key Specifications - Mechanical

| Dimensions: | 80 x 30 x 90.3mm |
|------------------|----------------------|
| Weight: | 26g |
| Cable: | 1.37mm, 150mm length |
| Connector: | u.FL plug |
| Radome material: | PCB FR4 |
| Radome colour: | Gold |

sales

email

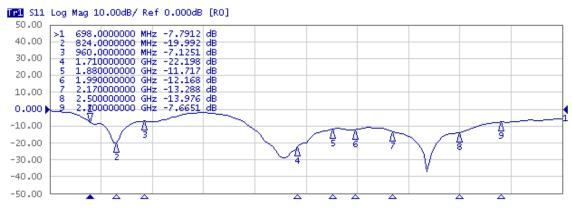
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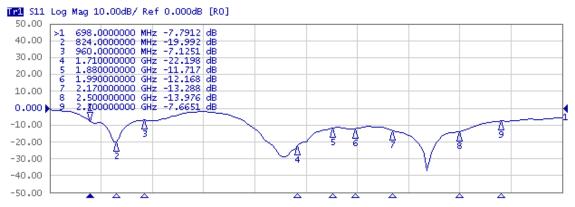
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Test Results

Return Loss



VSWR



sales

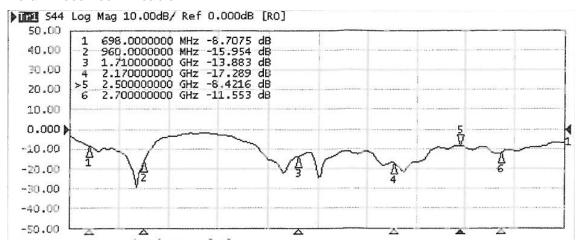
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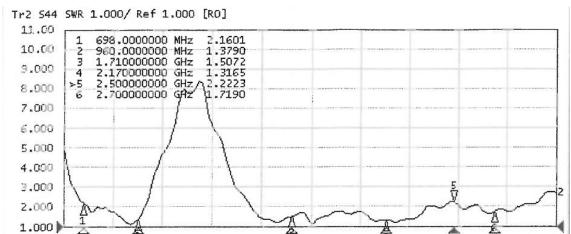


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Return Loss - 50mm cable



SWR - 50mm cable



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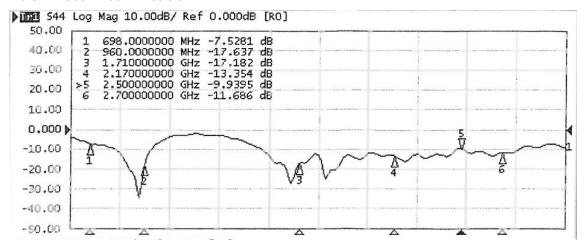
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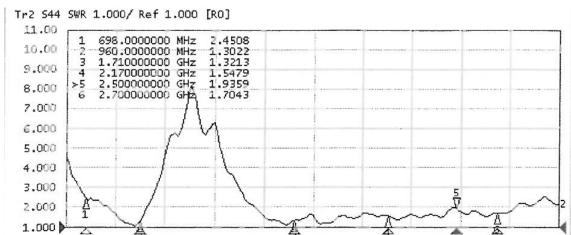


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Return Loss - 100mm cable



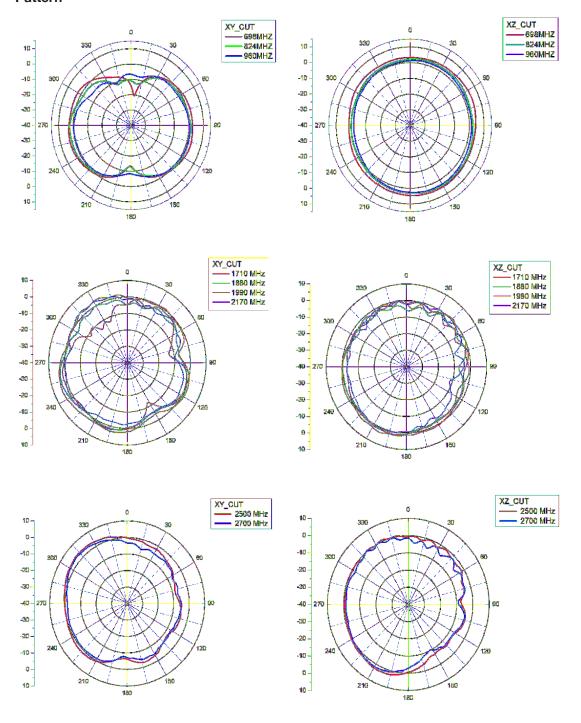
SWR - 100mm cable





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Pattern



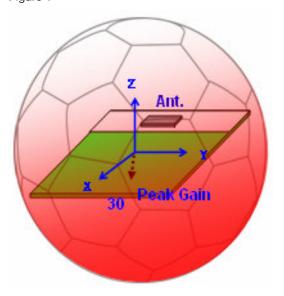


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Layout Considerations

Recommended antenna placement and PCB layout

Figure 1



Note:

- 1. The Echo 40 has the best radiation performance as measured from the center line of the PCB, to the beam angle (as shown in Figures 1, 2 and 3).
- 2. Mechanical Considerations Antenna and housing distance: Top >8mm, Side PCB groud side: 150 x 145mm

Other preferred antenna placement and PCB layout

Figure 2

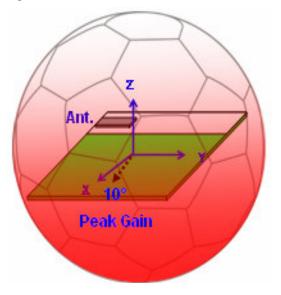


Figure 3

