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!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

+2dB 'T' Bar GSM Quad Band

Features

- Quad Band Patch Antenna;
  - 824-960MHz
  - 1710-1990 MHz
  - 1900 -2200 MHz
- Active gain: +3dBi
- VSWR <2.0
- 3m RG174 Connecting Lead
- 3M adhesive sticker on Rear
- Ground plane Independent
- Alternative Connectors: FME / TNC / SMA / MMCX

Applications

- Embedded GSM
- Space Saving Applications
- Car Window

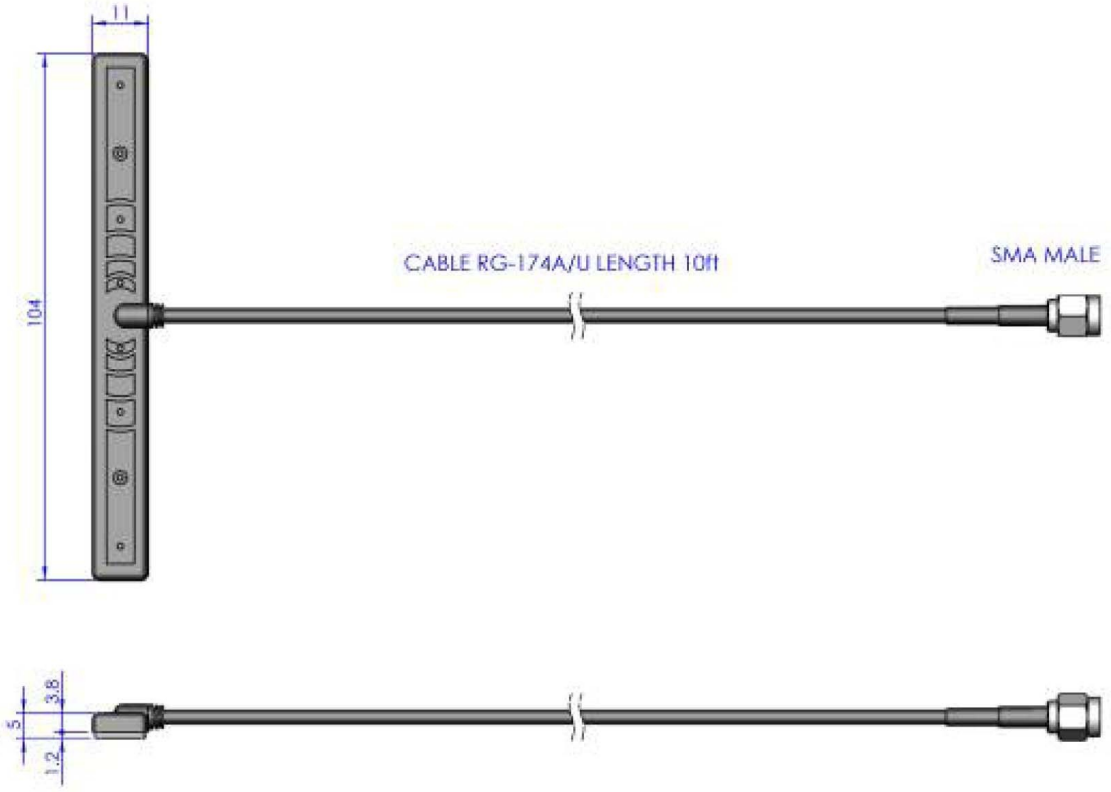
Description

A compact PCB Antenna for GSM Cellular applications where high performance is required from a small size. Using the ANT-GSMQB will give optimum range and reliability to your application.

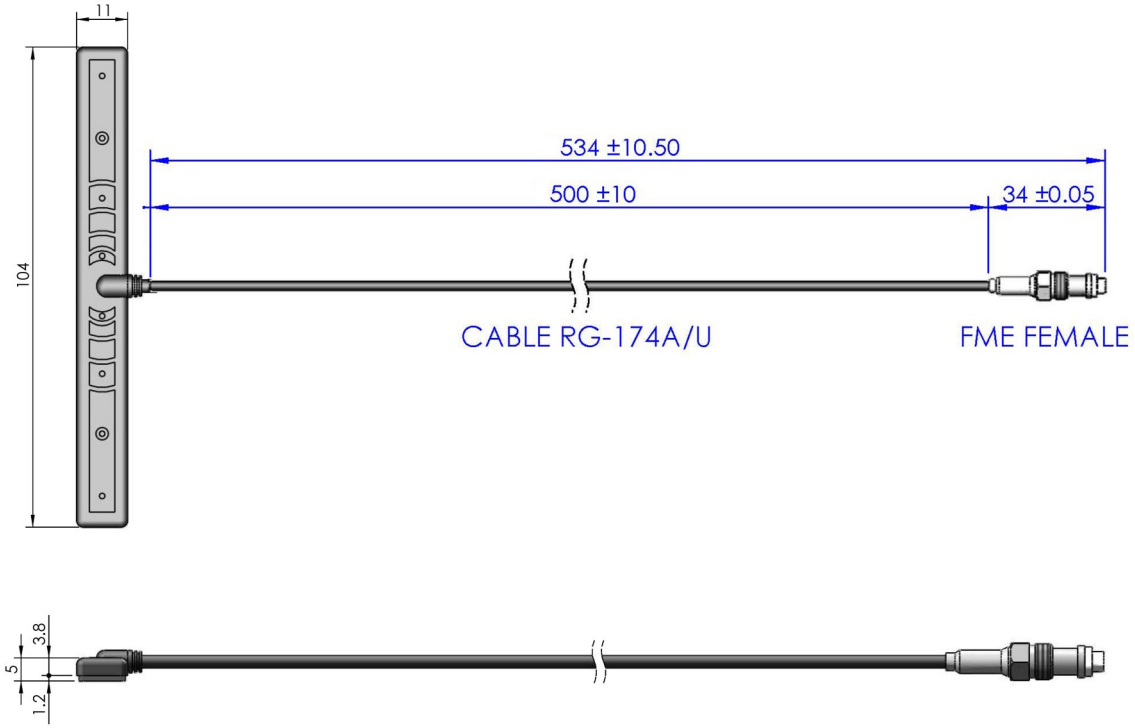
Ordering Information

Part Number	Length	Width	Max Height	Cable Length	Connector
ANT-TBARQB-SMA	104mm	10mm	3mm	3m	SMA (M)

Mechanical Data SMA Version

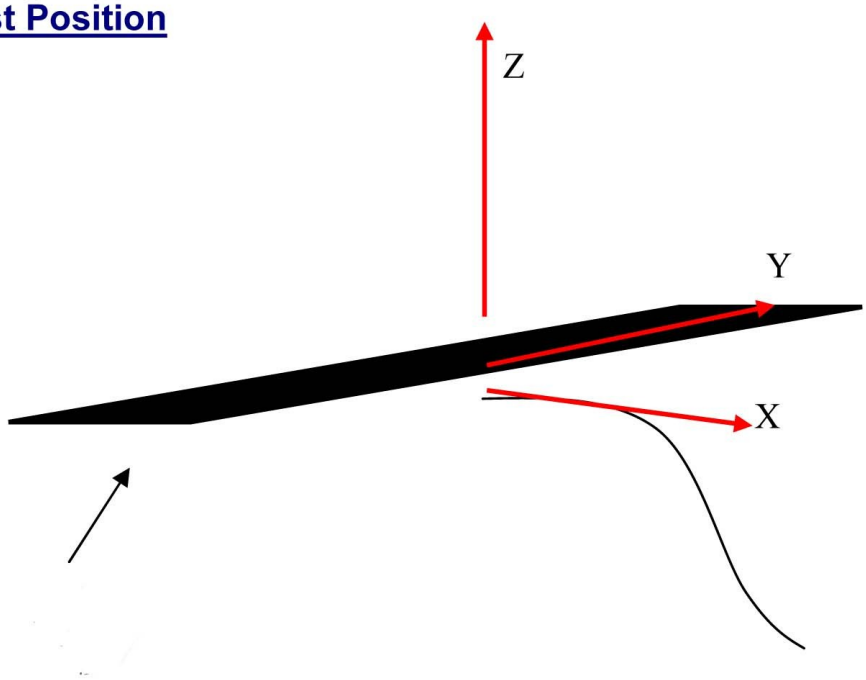


Mechanical Data FME Version



Test Performance Data

Test Position



Measurement Equipment

Vector Network Analyzer: Rohdes Schwarz ZVM

Double Ridged Horn Ant: Trimillenntum Corporation DRH0018-C900

Standard Horn Antenna: Wavepro SG284
Wavepro SG187
Wavepro SG430

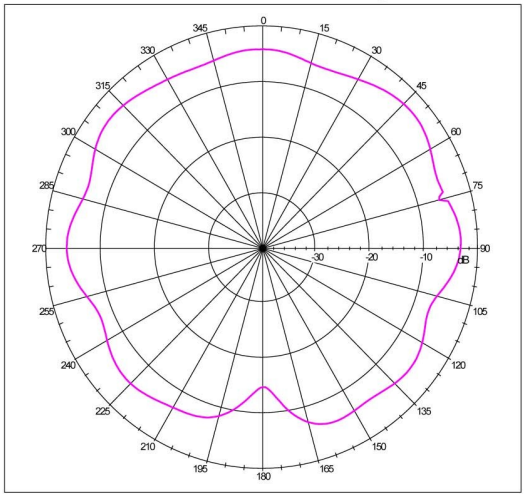
Spherical Antenna
Measurement System: Wavepro NSI-700S-90

Measurement Uncertainty

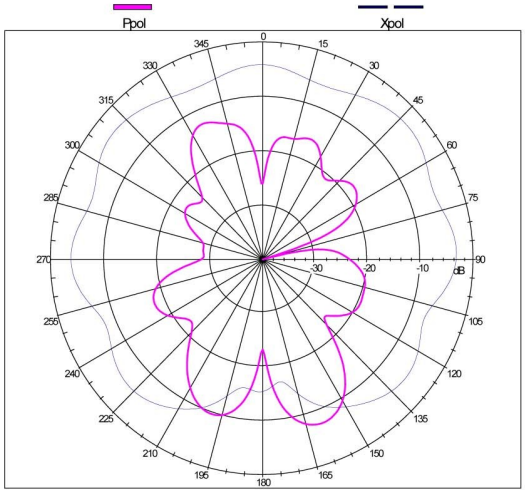
The measurement uncertainty is evaluated as 1.412dBi

ANT-TBAR

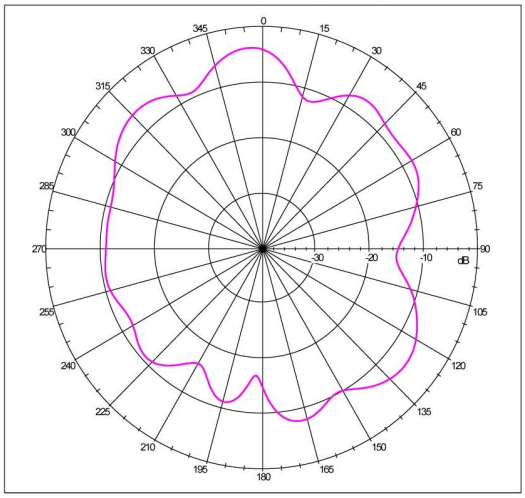
Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)
Gain=-3.31 dBi; Total Radiating Efficiency: 20.26% @0.84000 GHz



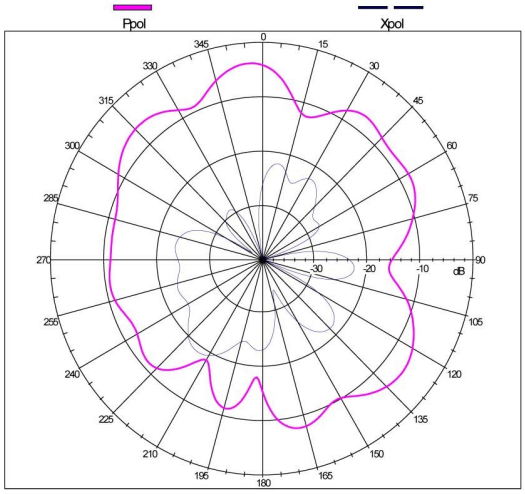
Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)
Gain=-3.31 dBi; Co-Pol Efficiency: 18.81% @Freq: 0.84000 GHz



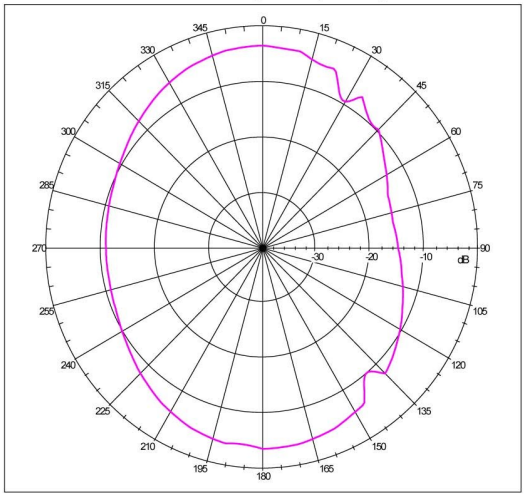
Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)
Gain=-3.31 dBi; Total Radiating Efficiency: 20.26% @0.84000 GHz



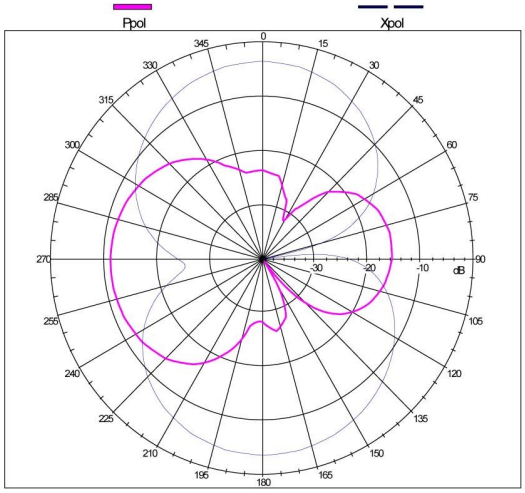
Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)
Gain=-3.31 dBi; Co-Pol Efficiency: 18.81% @Freq: 0.84000 GHz



Far-field Power Distribution on X-Y Plane
Gain=-3.31 dBi; Total Radiating Efficiency: 20.26% @0.84000 GHz



Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)
Gain=-3.31 dBi; Co-Pol Efficiency: 18.81% @Freq: 0.84000 GHz



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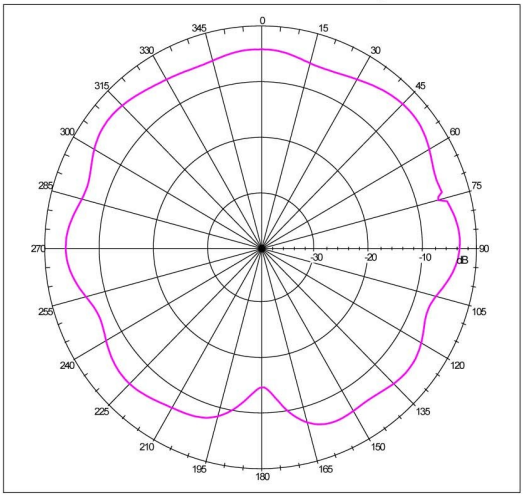
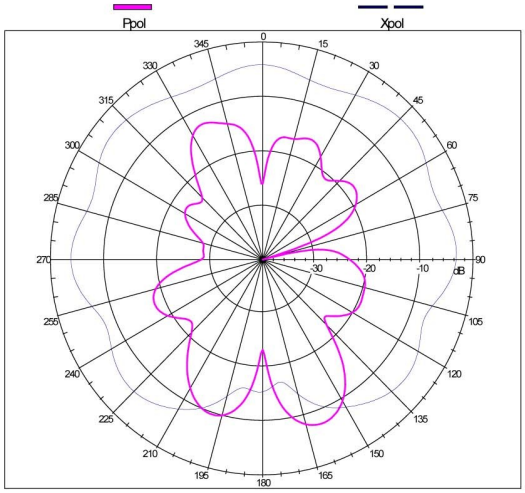
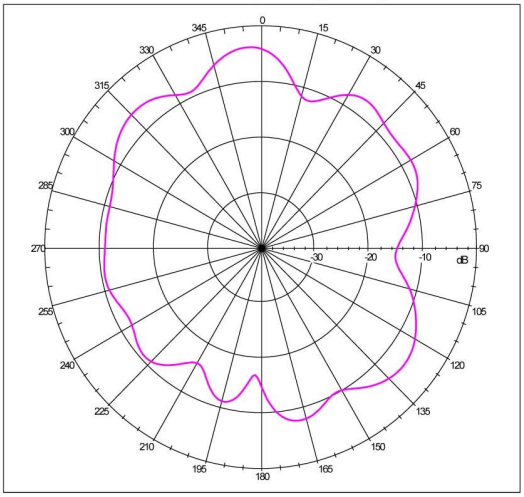
Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)
Gain=-3.31 dBi; Total Radiating Efficiency: 20.26%@0.84000 GHz



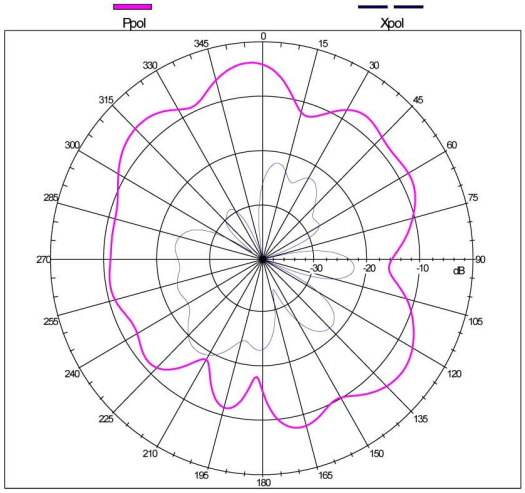
Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)
Gain=-3.31 dBi; Co-Pol Efficiency: 18.81%@Freq: 0.84000 GHz



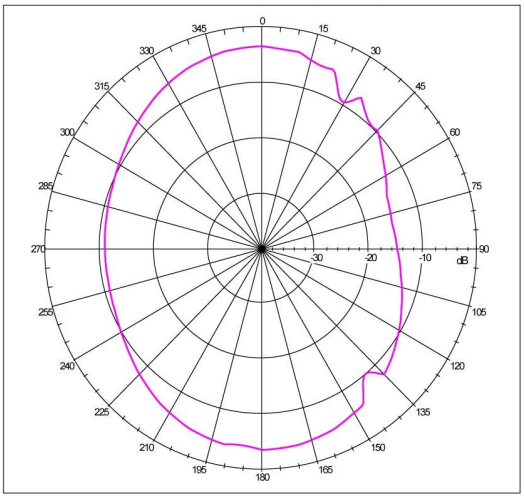
Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)
Gain=-3.31 dBi; Total Radiating Efficiency: 20.26%@0.84000 GHz



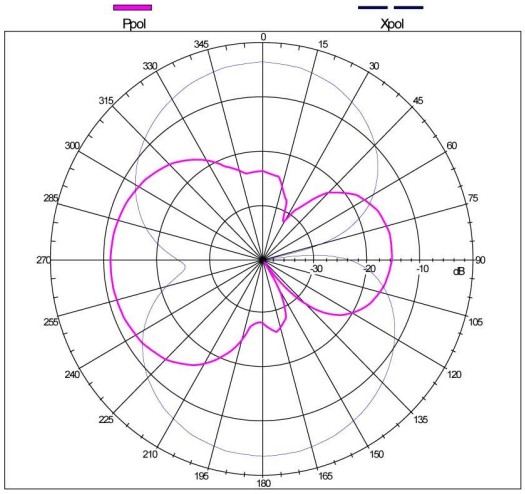
Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)
Gain=-3.31 dBi; Co-Pol Efficiency: 18.81%@Freq: 0.84000 GHz



Far-field Power Distribution on X-Y Plane
Gain=-3.31 dBi; Total Radiating Efficiency: 20.26%@0.84000 GHz



Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)
Gain=-3.31 dBi; Co-Pol Efficiency: 18.81%@Freq: 0.84000 GHz



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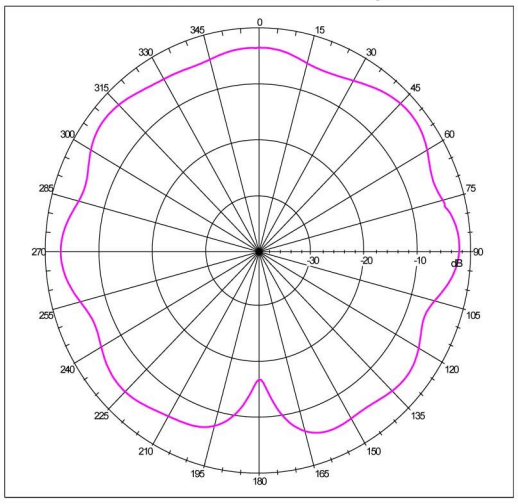
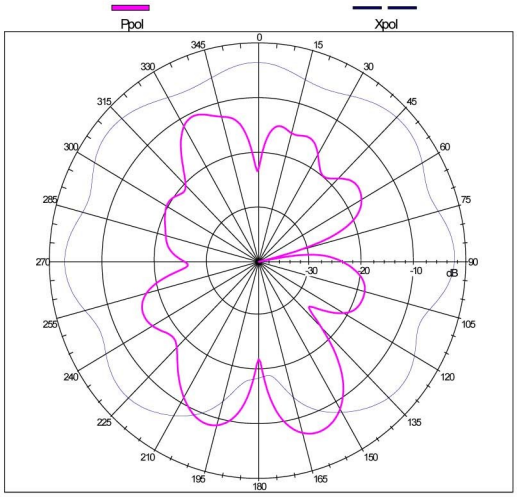
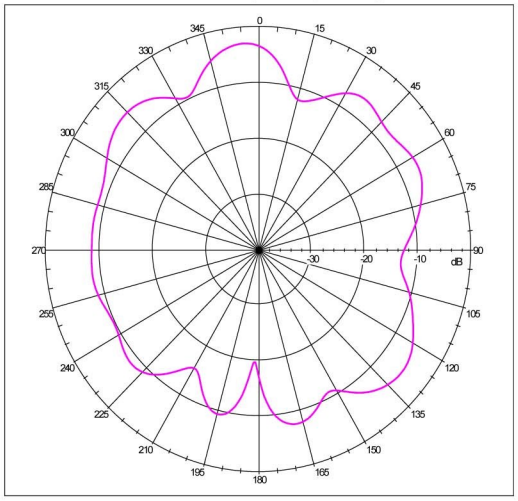
Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)
Gain=-2.51 dBi; Total Radiating Efficiency: 24.58%@0.84500 GHz



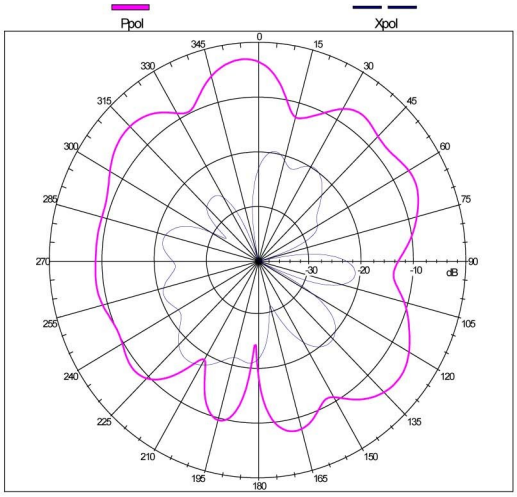
Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)
Gain=-2.51 dBi; Co-Pol Efficiency: 23.61%@Freq: 0.84500 GHz



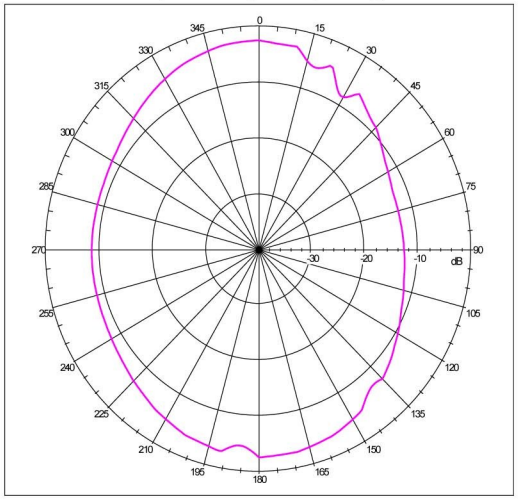
Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)
Gain=-2.51 dBi; Total Radiating Efficiency: 24.58%@0.84500 GHz



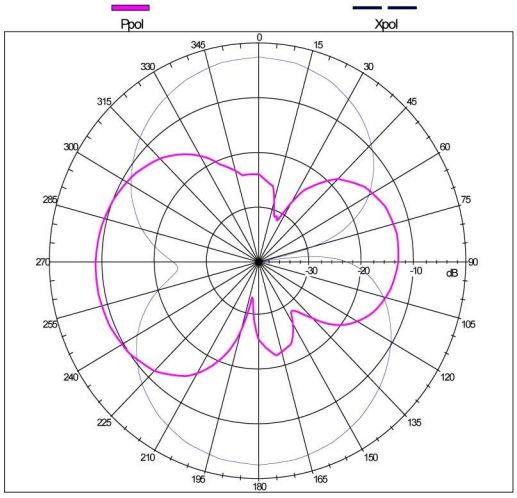
Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)
Gain=-2.51 dBi; Co-Pol Efficiency: 23.61%@Freq: 0.84500 GHz



Far-field Power Distribution on X-Y Plane
Gain=-2.51 dBi; Total Radiating Efficiency: 24.58%@0.84500 GHz



Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)
Gain=-2.51 dBi; Co-Pol Efficiency: 23.61%@Freq: 0.84500 GHz



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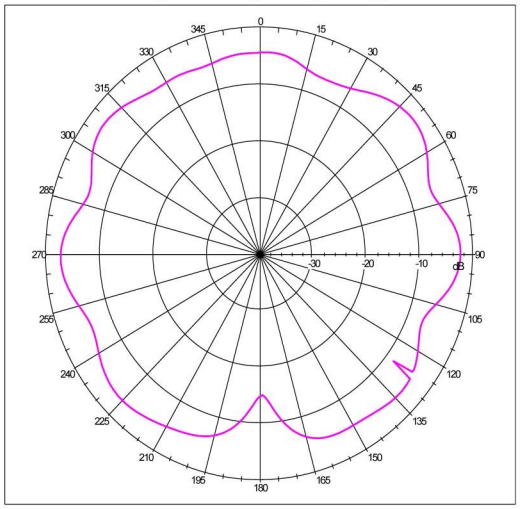
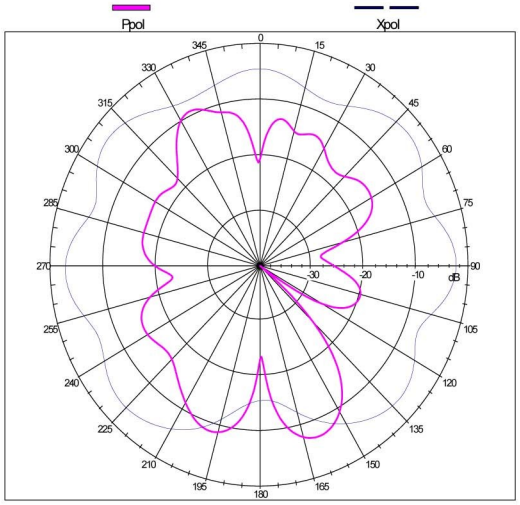
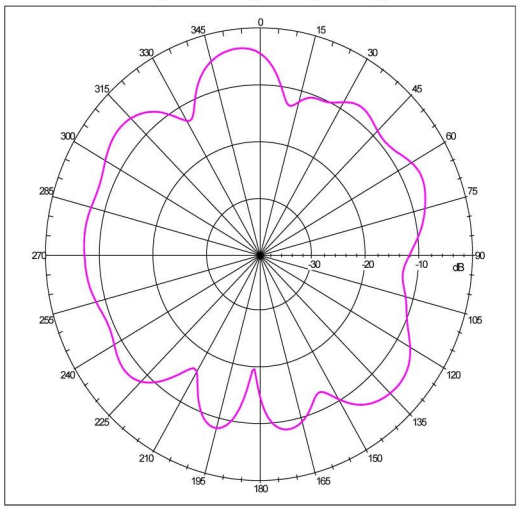
Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)
Gain=-2.61 dBi; Total Radiating Efficiency: 23.47%@0.85000 GHz



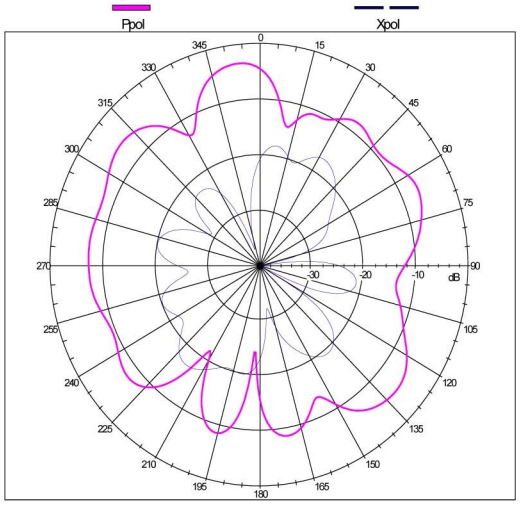
Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)
Gain=-2.61 dBi; Co-Pol Efficiency: 22.43%@Freq: 0.85000 GHz



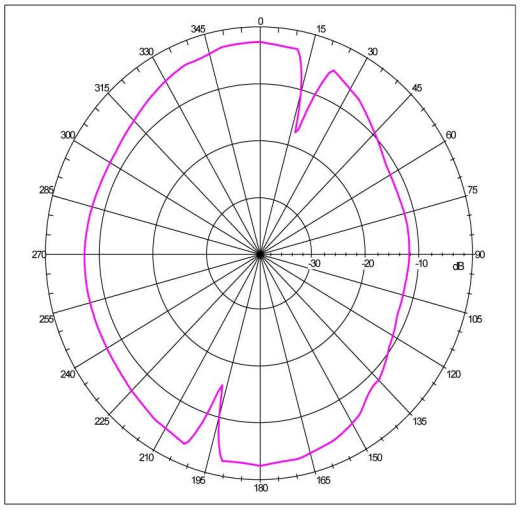
Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)
Gain=-2.61 dBi; Total Radiating Efficiency: 23.47%@0.85000 GHz



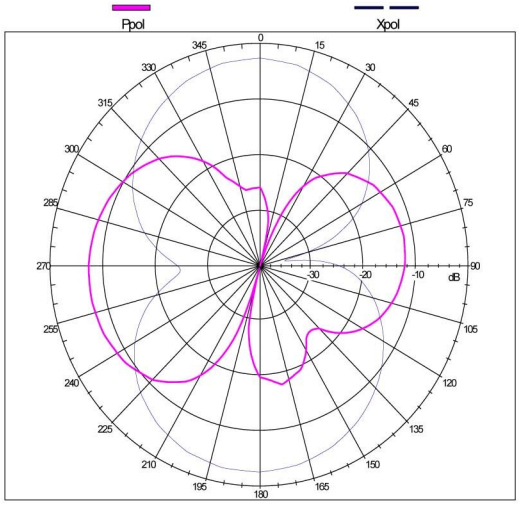
Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)
Gain=-2.61 dBi; Co-Pol Efficiency: 22.43%@Freq: 0.85000 GHz



Far-field Power Distribution on X-Y Plane
Gain=-2.61 dBi; Total Radiating Efficiency: 23.47%@0.85000 GHz



Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)
Gain=-2.61 dBi; Co-Pol Efficiency: 22.43%@Freq: 0.85000 GHz



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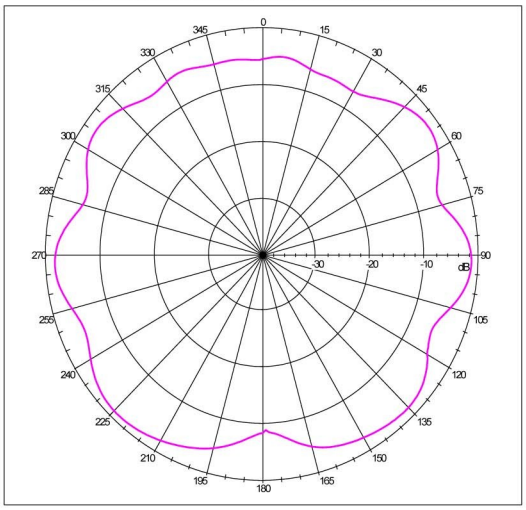
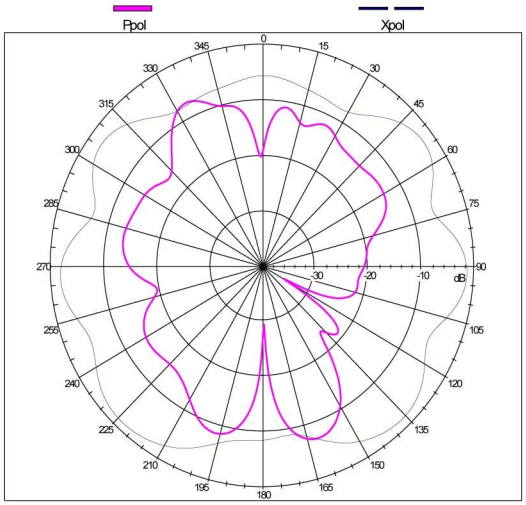
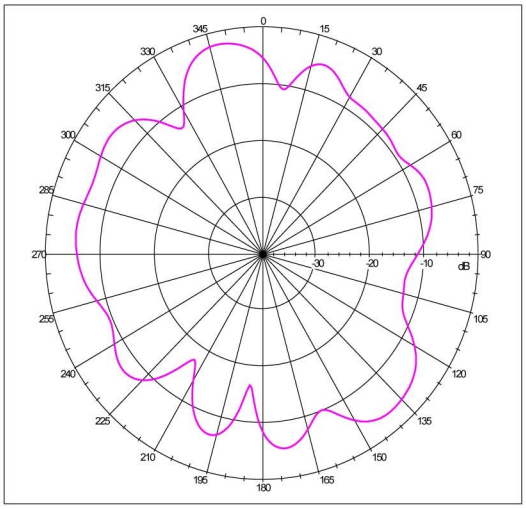
Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)
Gain=-1.33 dBi; Total Radiating Efficiency: 29.83% @0.85500 GHz



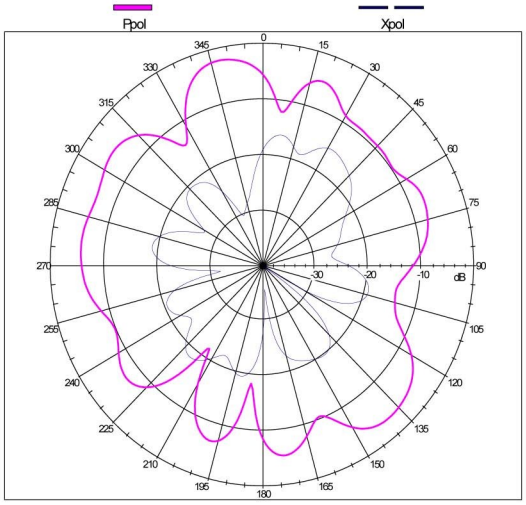
Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)
Gain=-1.33 dBi; Co-Pol Efficiency: 26.67% @Freq: 0.85500 GHz



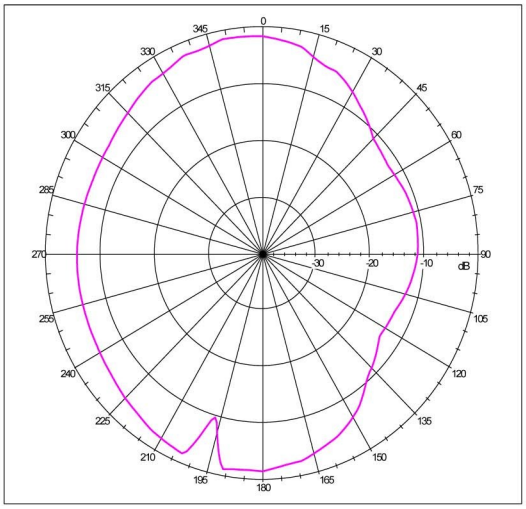
Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)
Gain=-1.33 dBi; Total Radiating Efficiency: 29.83% @0.85500 GHz



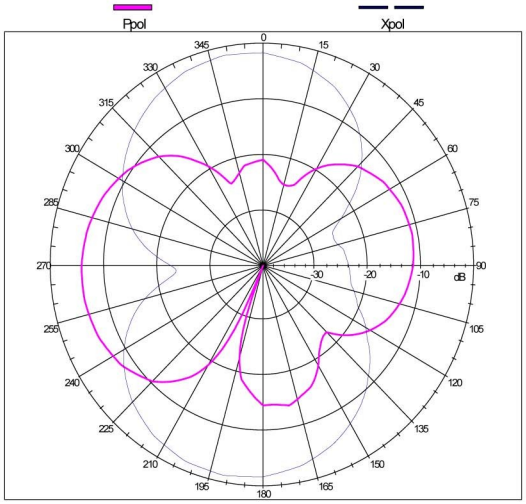
Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)
Gain=-1.33 dBi; Co-Pol Efficiency: 26.67% @Freq: 0.85500 GHz



Far-field Power Distribution on X-Y Plane
Gain=-1.33 dBi; Total Radiating Efficiency: 29.83% @0.85500 GHz



Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)
Gain=-1.33 dBi; Co-Pol Efficiency: 26.67% @Freq: 0.85500 GHz



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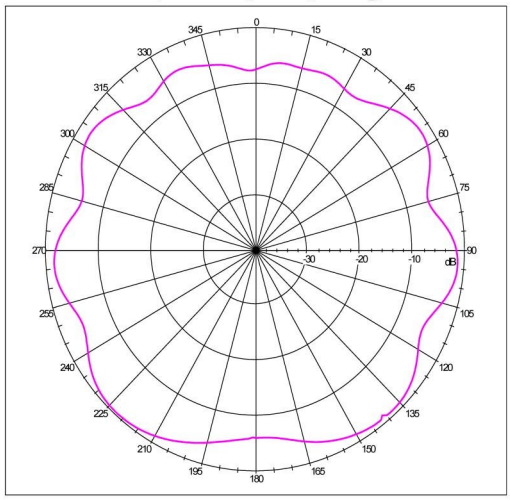
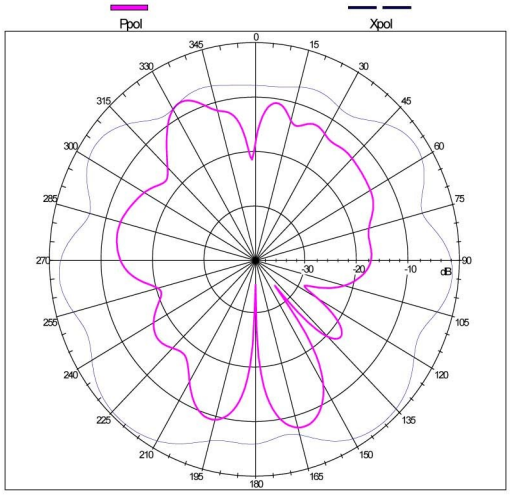
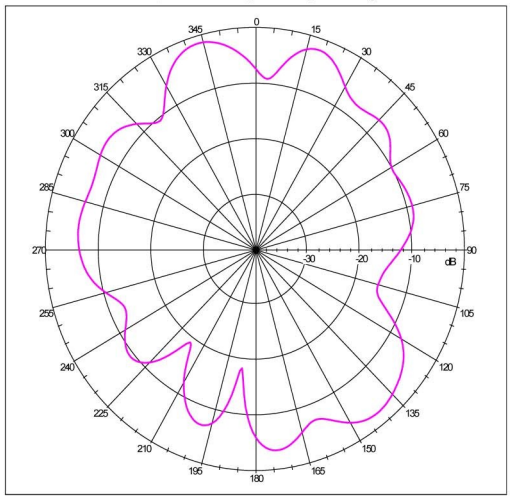
Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)
Gain=-0.58 dBi; Total Radiating Efficiency: 31.68%@0.86000 GHz



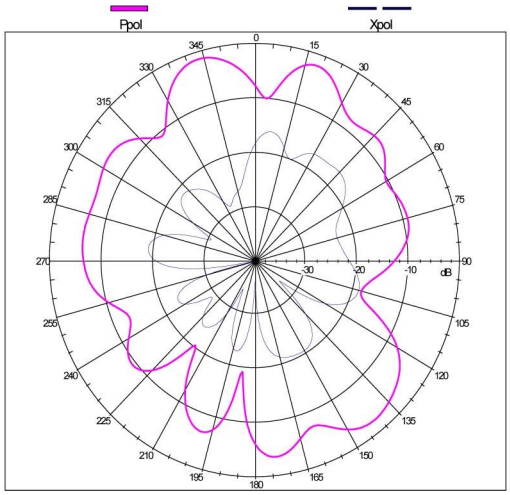
Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)
Gain=-0.58 dBi; Co-Pol Efficiency: 29.35%@Freq: 0.86000 GHz



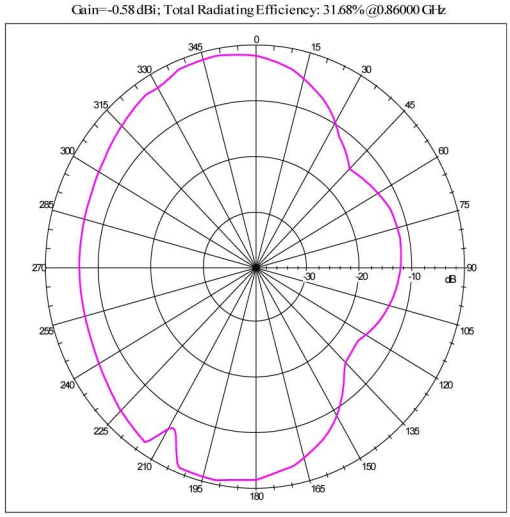
Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)
Gain=-0.58 dBi; Total Radiating Efficiency: 31.68%@0.86000 GHz



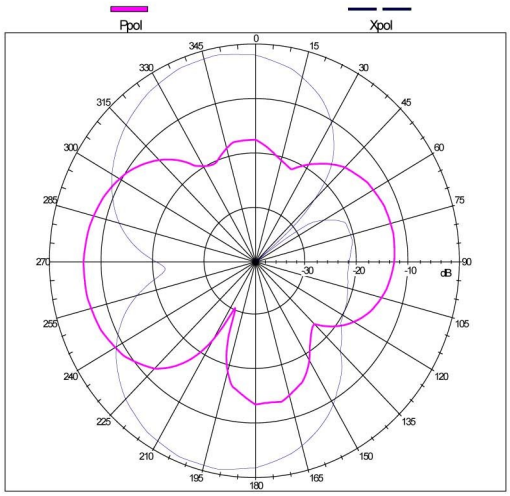
Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)
Gain=-0.58 dBi; Co-Pol Efficiency: 29.35%@Freq: 0.86000 GHz



Far-field Power Distribution on X-Y Plane
Gain=-0.58 dBi; Total Radiating Efficiency: 31.68%@0.86000 GHz

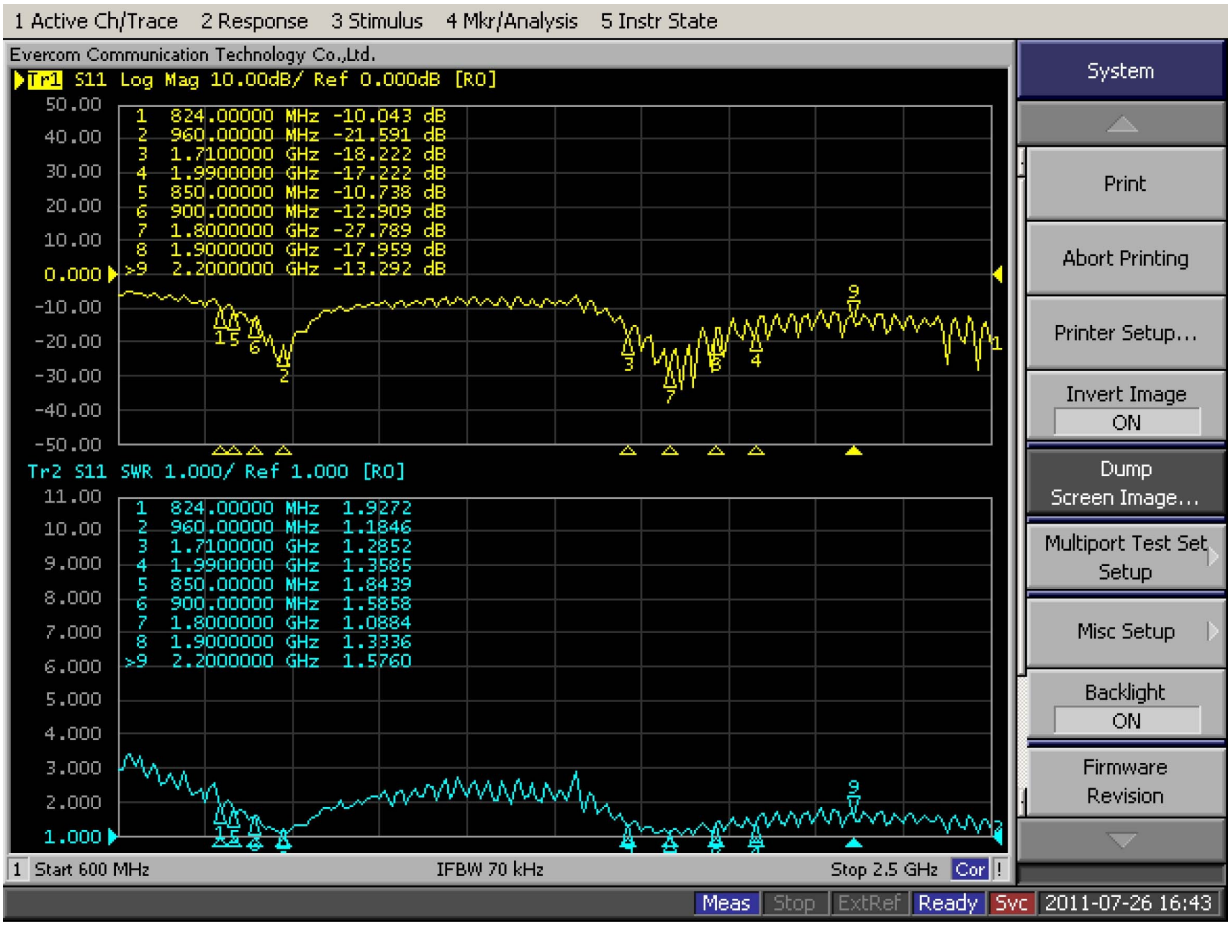


Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)
Gain=-0.58 dBi; Co-Pol Efficiency: 29.35%@Freq: 0.86000 GHz



ANT-TBAR

Performance Data : VSWR



RF Solutions Ltd. Recycling Notice
Meets the following EC Directives:

DO NOT
Discard with normal waste, please recycle.

ROHS Directive 2002/95/EC
Specifies certain limits for hazardous substances.

WEEE Directive 2002/96/EC
Waste electrical & electronic equipment. This product must be disposed of through a licensed WEEE collection point. RF Solutions Ltd., fulfils its WEEE obligations by membership of an approved compliance scheme.

Waste Batteries and Accumulators

Directive 2006/66/EC
Where batteries are fitted, before recycling the product, the batteries must be removed and disposed of at a licensed collection point.

Environment Agency producer registration number: WEE/JB0104WV.

RF Solutions Ltd
William Alexander House, William Way, Burgess Hill, West Sussex, RH15 9AG
Sales: +44(0)1444 227 910 Tech Support: +44(0)1444 227909