+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

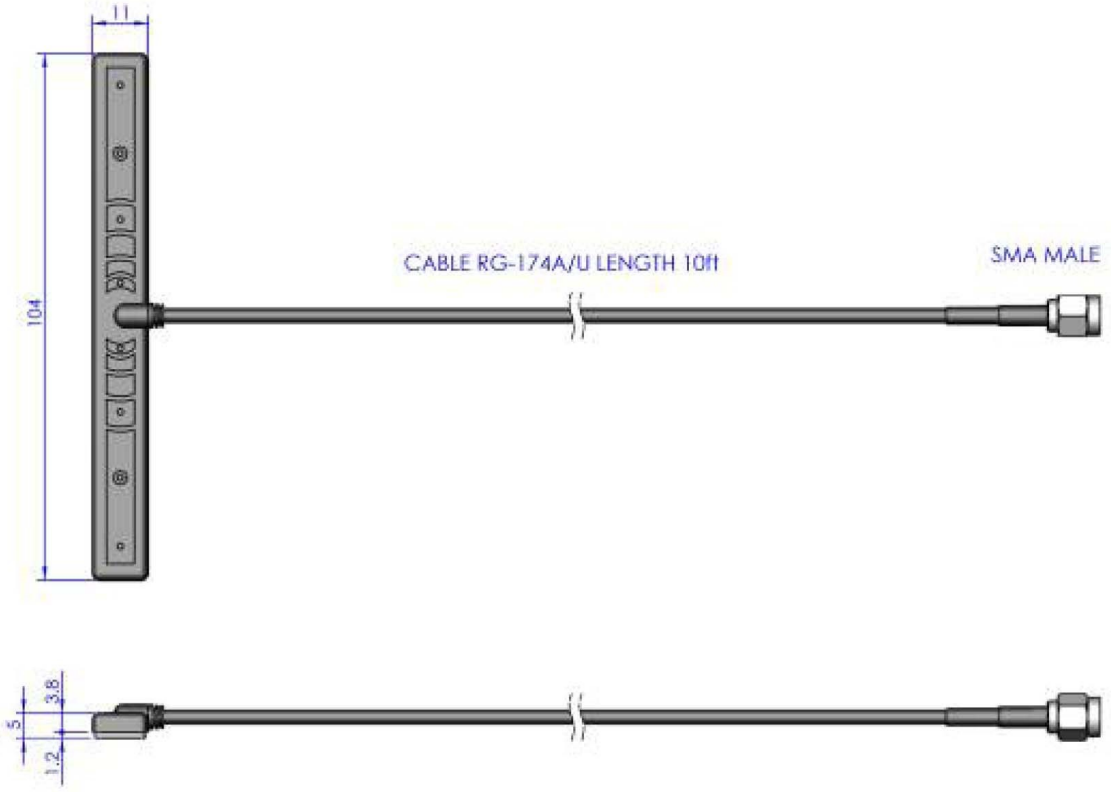
Description

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.

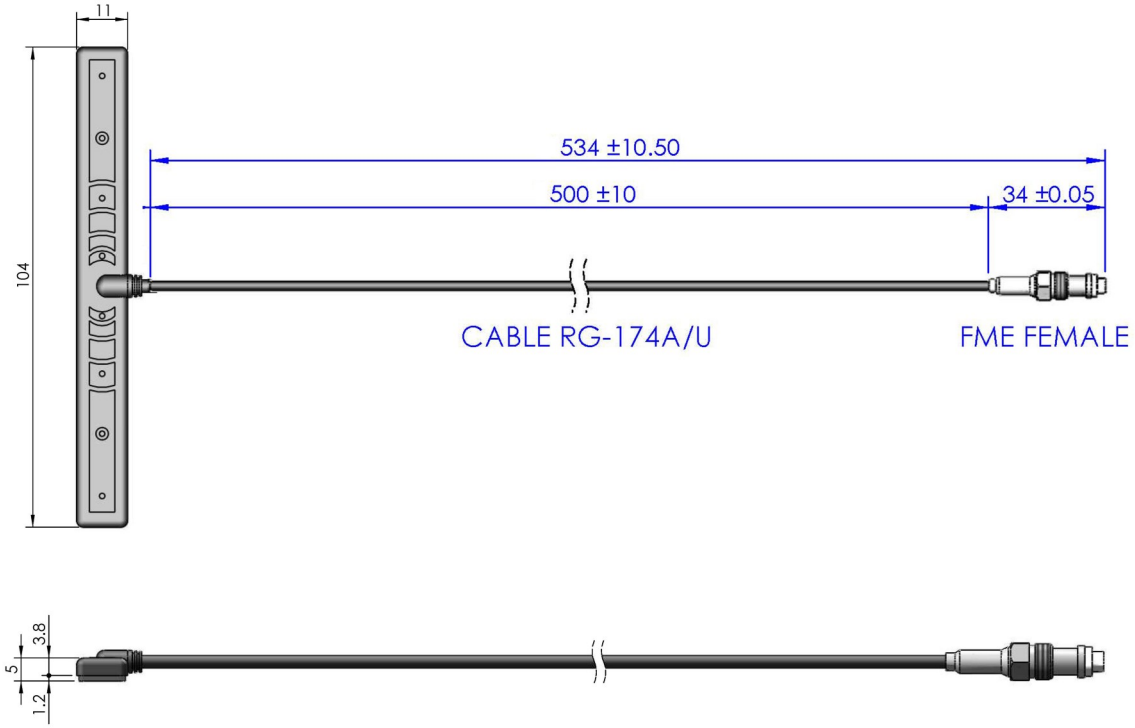
Ordering Information

Part Number	Length	Width	Max Height	Cable Length	Connector
ANT-TBARQB-SMA	113mm	10mm	3mm	3m	SMA (M)
ANT-TBARQB-FMEF	113mm	10mm	3mm	3m	FME (F)

Mechanical Data SMA Version

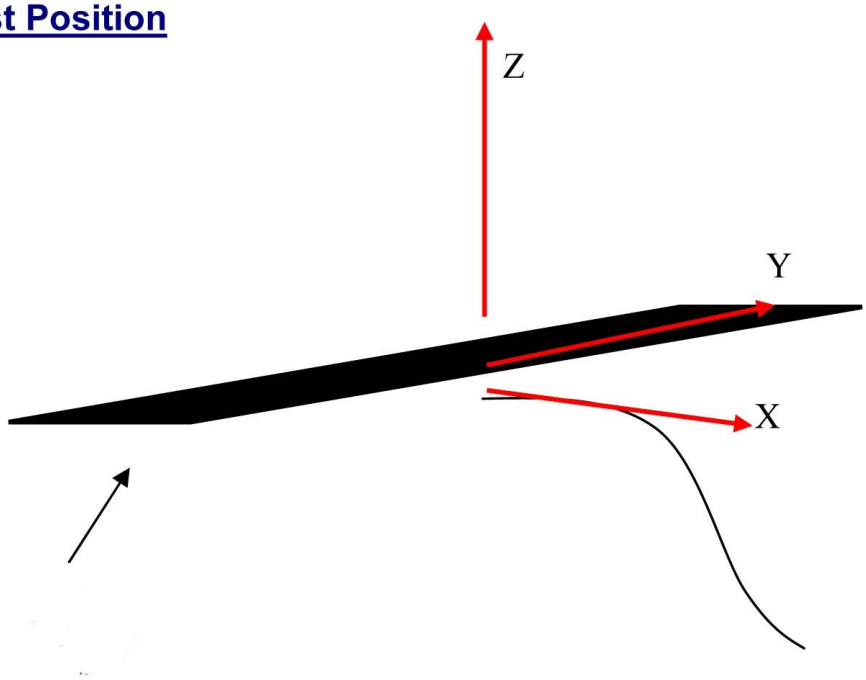


Mechanical Data FME Version



Test Performance Data

Test Position



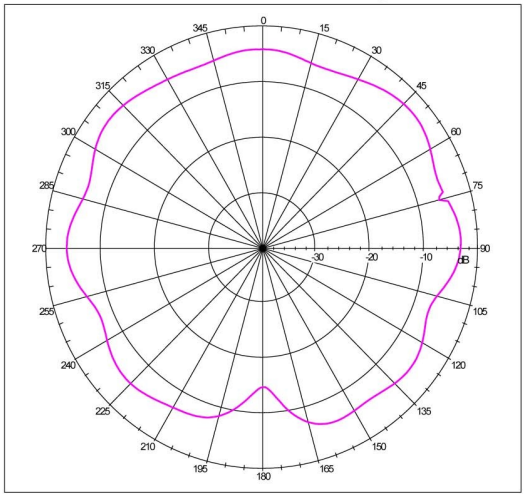
Measurement Equipment

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

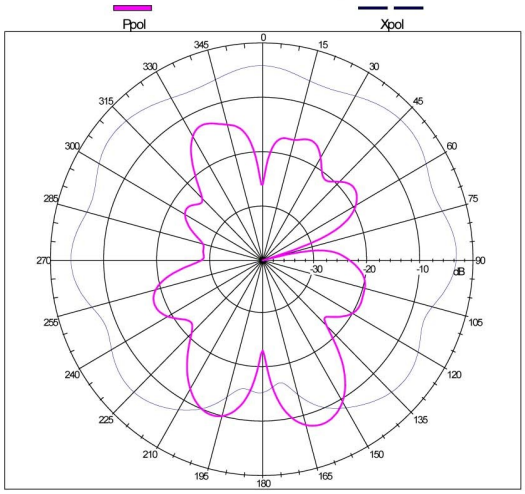
Measurement Uncertainty

The measurement uncertainty is evaluated as 1.412dBi

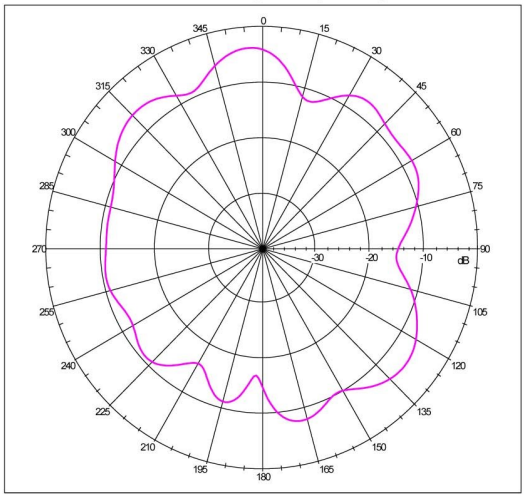
Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)
Gain=-3.31 dBi; Total Radiating Efficiency: 20.26% @0.84000 GHz



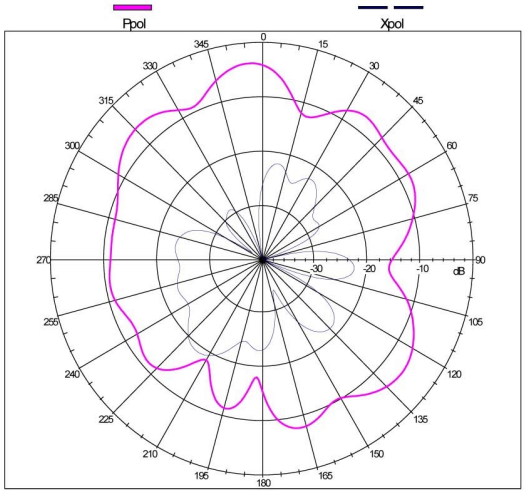
Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)
Gain=-3.31 dBi; Co-Pol Efficiency: 18.81% @Freq: 0.84000 GHz



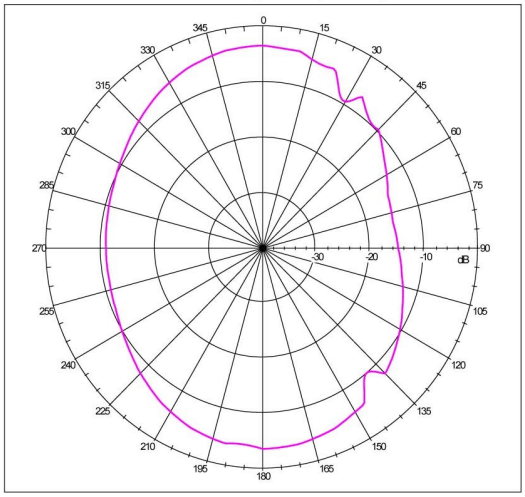
Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)
Gain=-3.31 dBi; Total Radiating Efficiency: 20.26% @0.84000 GHz



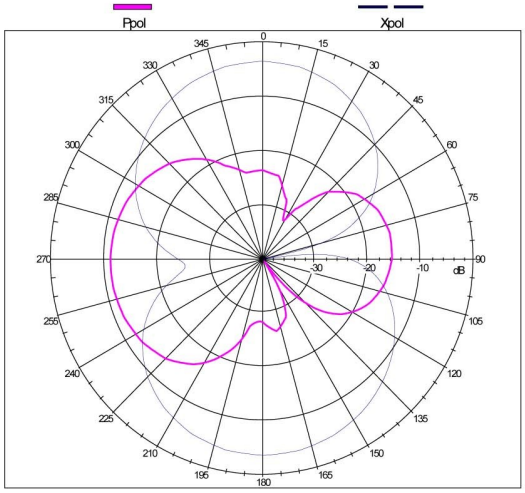
Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)
Gain=-3.31 dBi; Co-Pol Efficiency: 18.81% @Freq: 0.84000 GHz



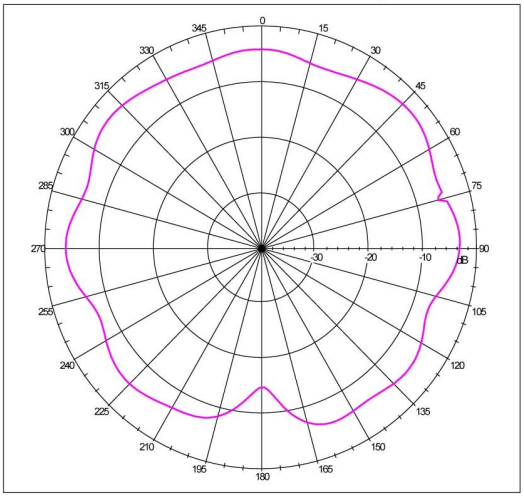
Far-field Power Distribution on X-Y Plane
Gain=-3.31 dBi; Total Radiating Efficiency: 20.26% @0.84000 GHz



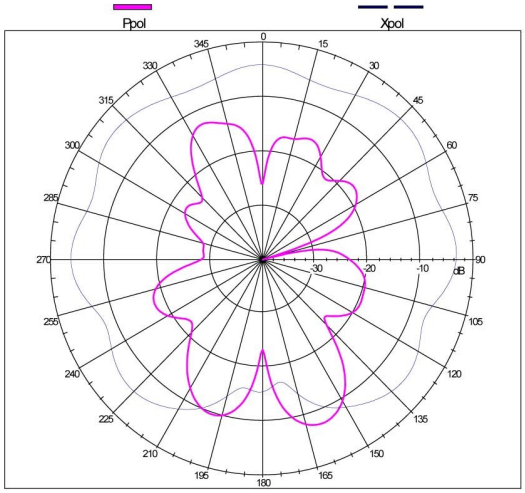
Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)
Gain=-3.31 dBi; Co-Pol Efficiency: 18.81% @Freq: 0.84000 GHz



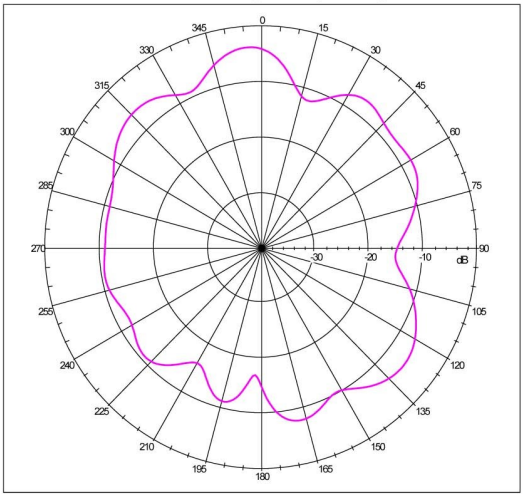
Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)
Gain=-3.31 dBi; Total Radiating Efficiency: 20.26% @0.84000 GHz



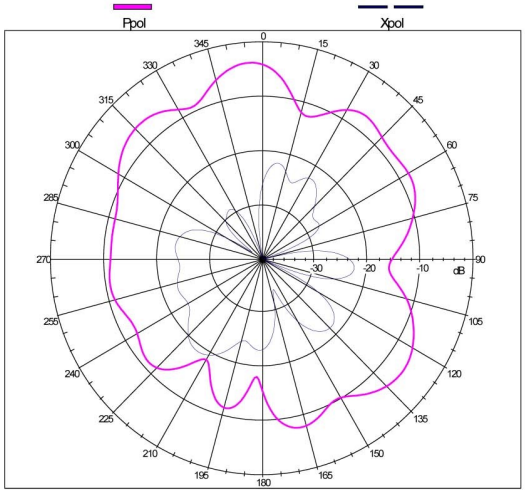
Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)
Gain=-3.31 dBi; Co-Pol Efficiency: 18.81% @Freq: 0.84000 GHz



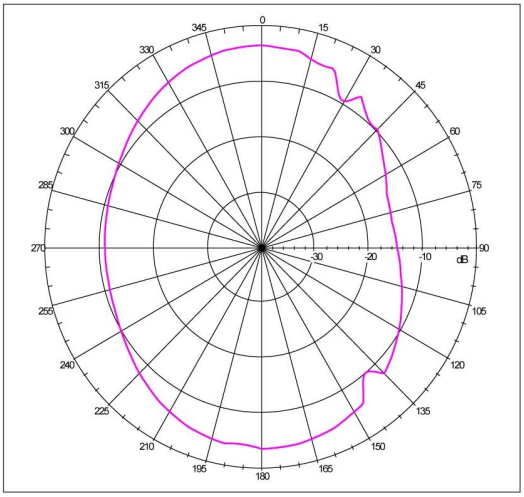
Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)
Gain=-3.31 dBi; Total Radiating Efficiency: 20.26% @0.84000 GHz



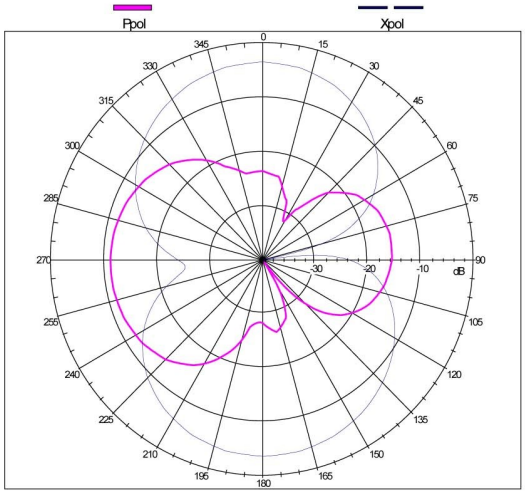
Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)
Gain=-3.31 dBi; Co-Pol Efficiency: 18.81% @Freq: 0.84000 GHz



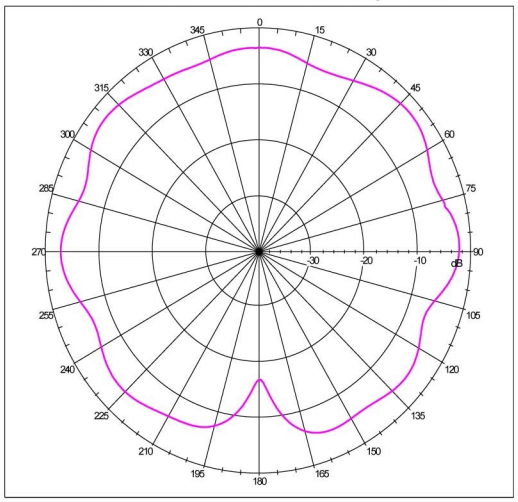
Far-field Power Distribution on X-Y Plane
Gain=-3.31 dBi; Total Radiating Efficiency: 20.26% @0.84000 GHz



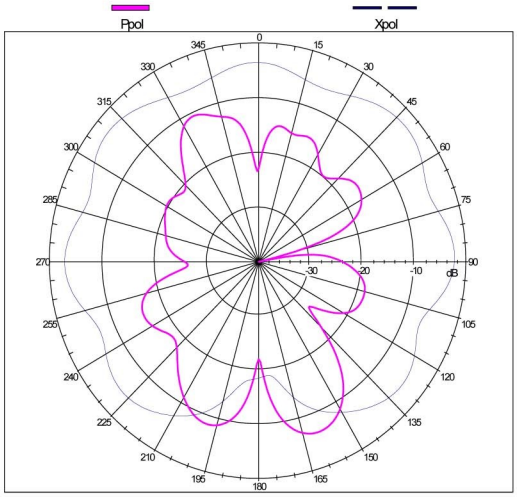
Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)
Gain=-3.31 dBi; Co-Pol Efficiency: 18.81% @Freq: 0.84000 GHz



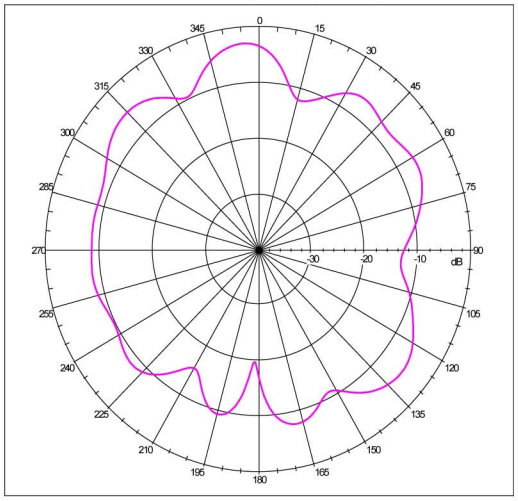
Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)
Gain=-2.51 dBi; Total Radiating Efficiency: 24.58%@0.84500 GHz



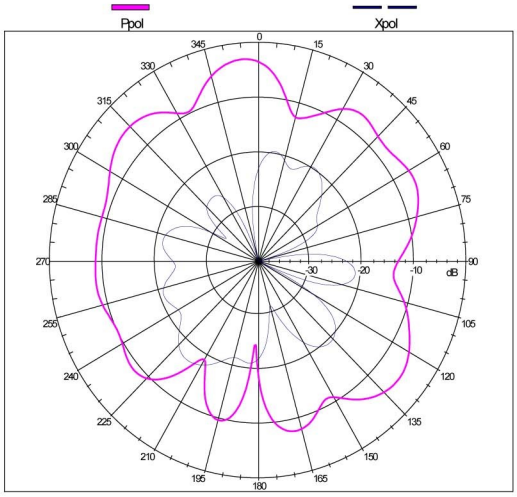
Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)
Gain=-2.51 dBi; Co-Pol Efficiency: 23.61%@Freq: 0.84500 GHz



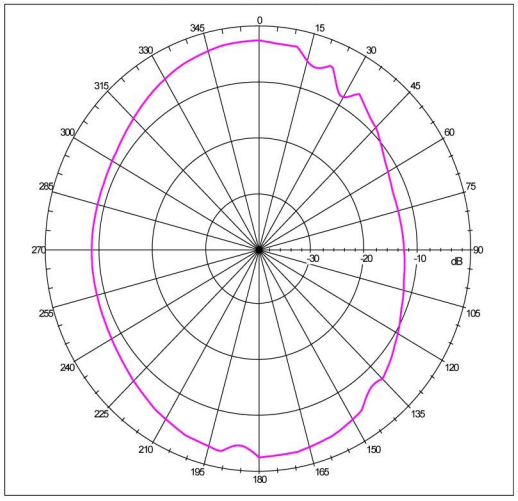
Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)
Gain=-2.51 dBi; Total Radiating Efficiency: 24.58%@0.84500 GHz



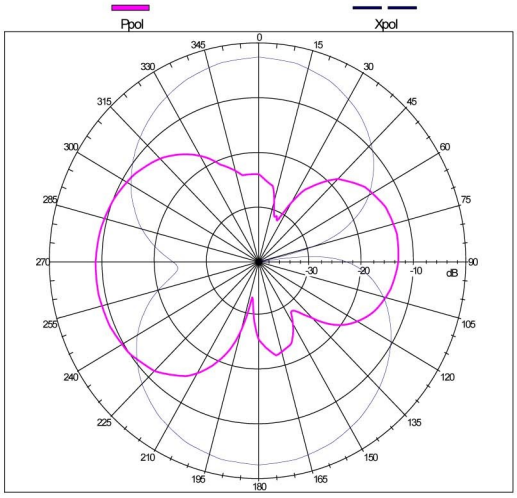
Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)
Gain=-2.51 dBi; Co-Pol Efficiency: 23.61%@Freq: 0.84500 GHz



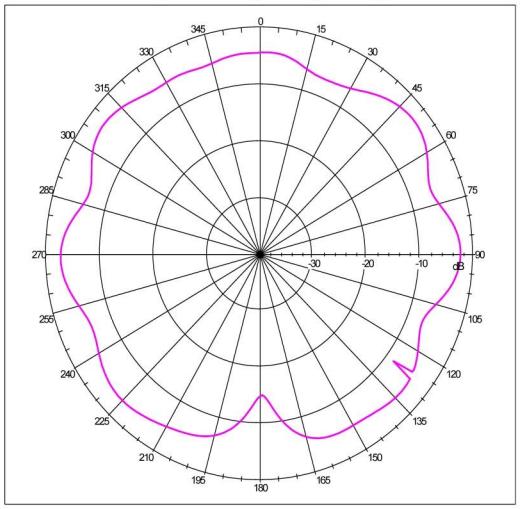
Far-field Power Distribution on X-Y Plane
Gain=-2.51 dBi; Total Radiating Efficiency: 24.58%@0.84500 GHz



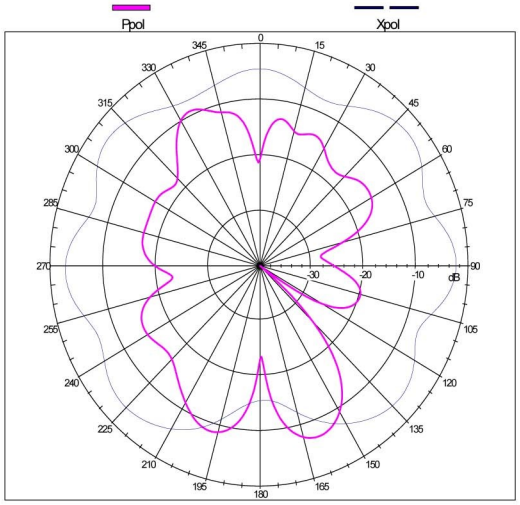
Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)
Gain=-2.51 dBi; Co-Pol Efficiency: 23.61%@Freq: 0.84500 GHz



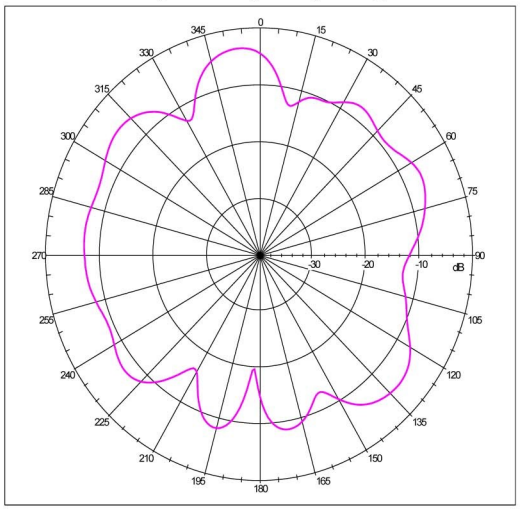
Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)
Gain=-2.61 dBi; Total Radiating Efficiency: 23.47%@0.85000 GHz



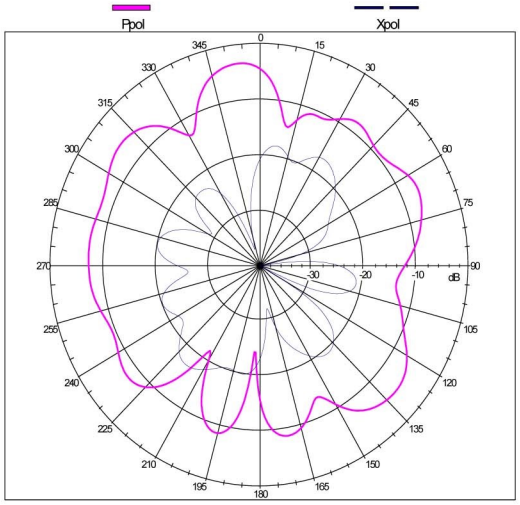
Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)
Gain=-2.61 dBi; Co-Pol Efficiency: 22.43%@Freq: 0.85000 GHz



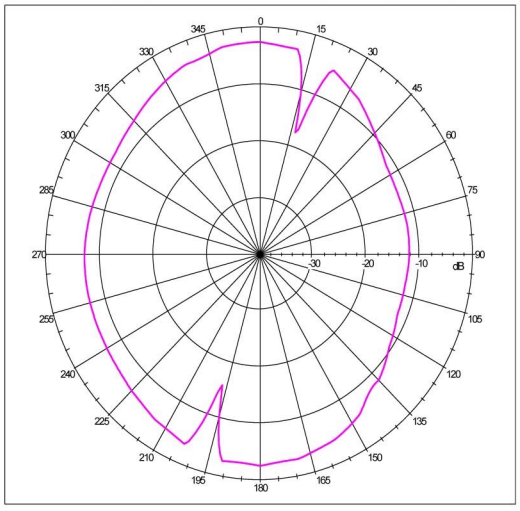
Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)
Gain=-2.61 dBi; Total Radiating Efficiency: 23.47%@0.85000 GHz



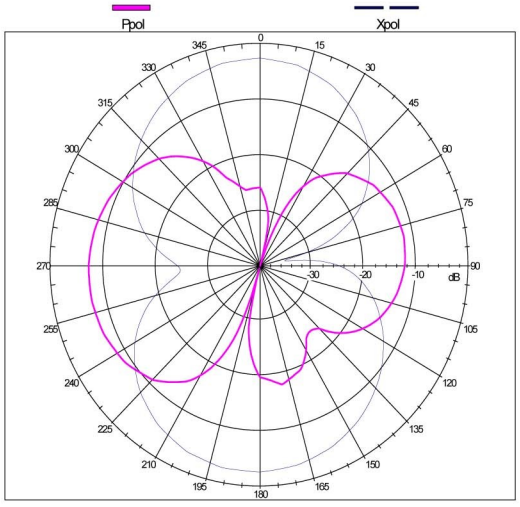
Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)
Gain=-2.61 dBi; Co-Pol Efficiency: 22.43%@Freq: 0.85000 GHz



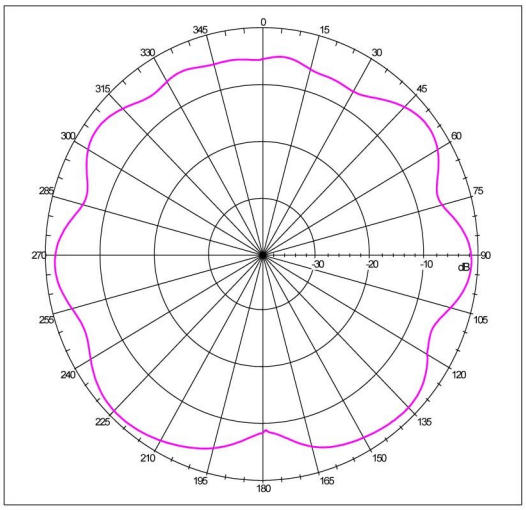
Far-field Power Distribution on X-Y Plane
Gain=-2.61 dBi; Total Radiating Efficiency: 23.47%@0.85000 GHz



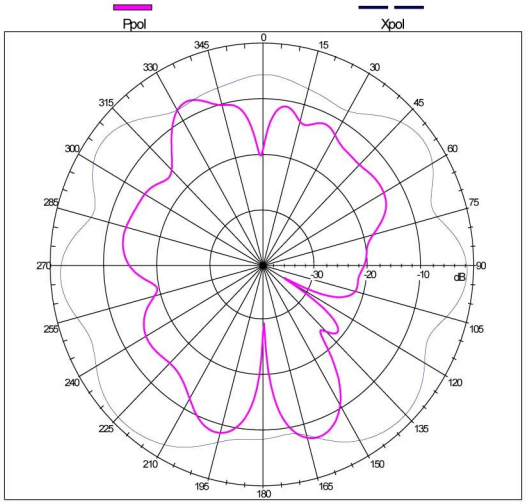
Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)
Gain=-2.61 dBi; Co-Pol Efficiency: 22.43%@Freq: 0.85000 GHz



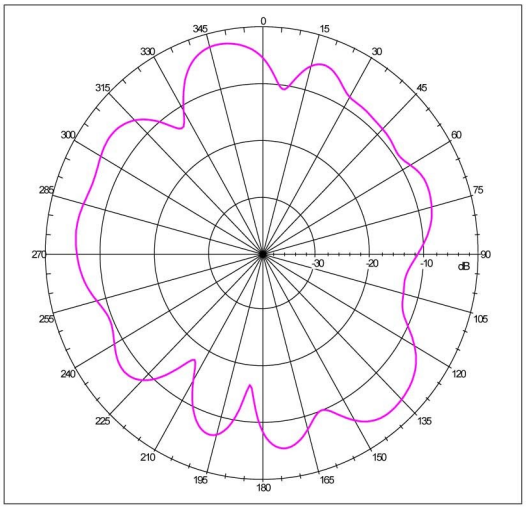
Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)
Gain=-1.33 dBi; Total Radiating Efficiency: 29.83% @0.85500 GHz



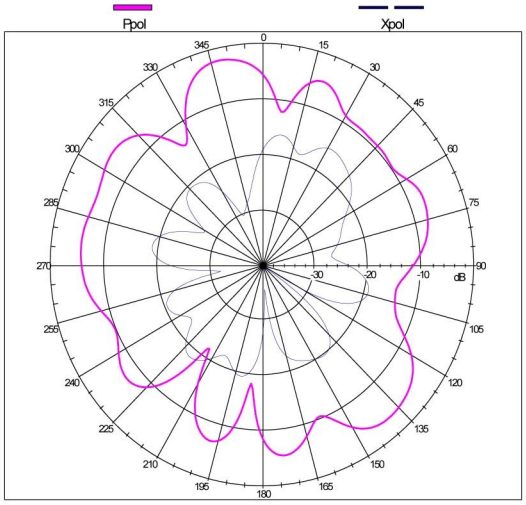
Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)
Gain=-1.33 dBi; Co-Pol Efficiency: 26.67% @Freq: 0.85500 GHz



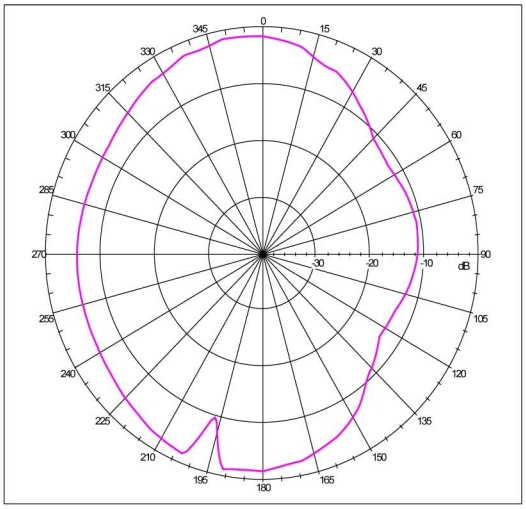
Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)
Gain=-1.33 dBi; Total Radiating Efficiency: 29.83% @0.85500 GHz



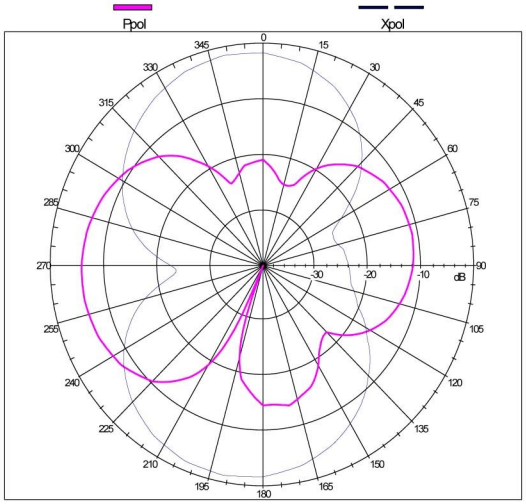
Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)
Gain=-1.33 dBi; Co-Pol Efficiency: 26.67% @Freq: 0.85500 GHz



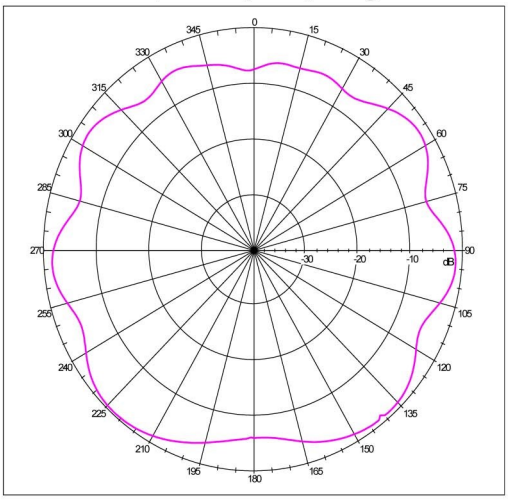
Far-field Power Distribution on X-Y Plane
Gain=-1.33 dBi; Total Radiating Efficiency: 29.83% @0.85500 GHz



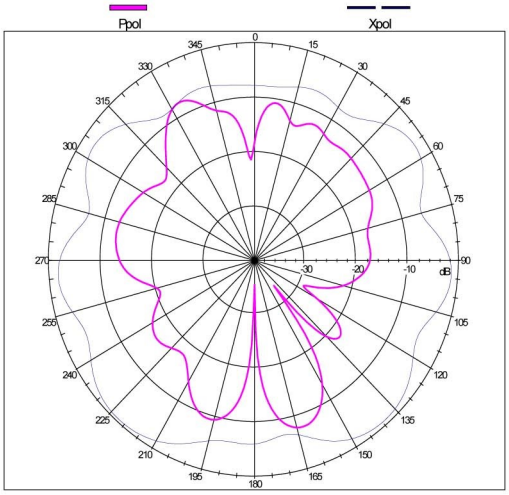
Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)
Gain=-1.33 dBi; Co-Pol Efficiency: 26.67% @Freq: 0.85500 GHz



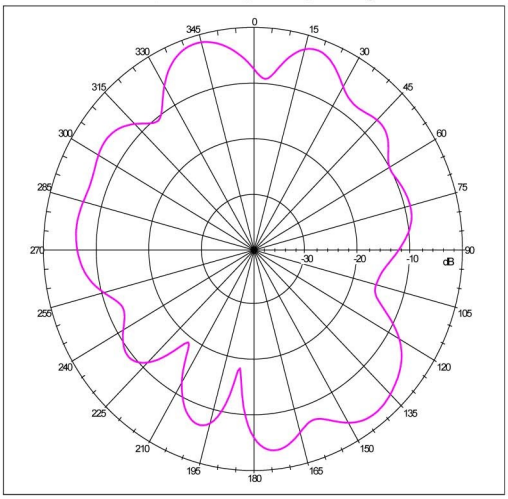
Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)
Gain=-0.58 dBi; Total Radiating Efficiency: 31.68%@0.86000 GHz



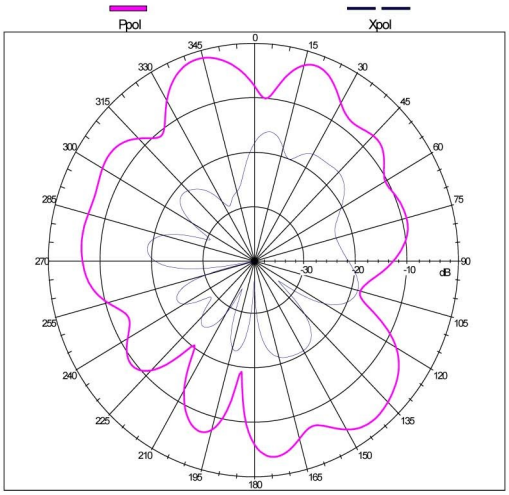
Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)
Gain=-0.58 dBi; Co-Pol Efficiency: 29.35%@Freq: 0.86000 GHz



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



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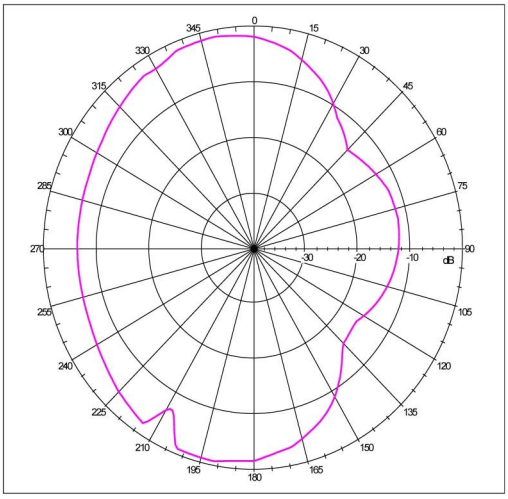
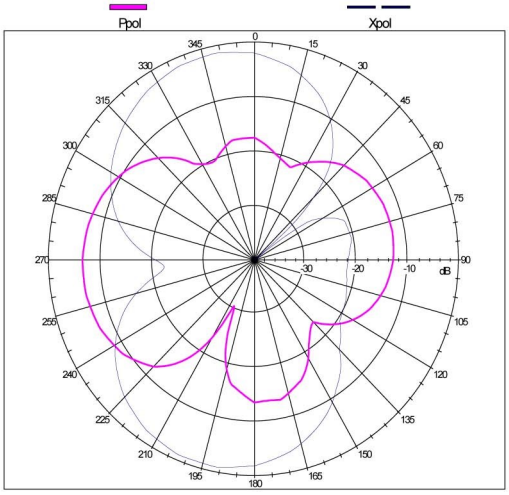
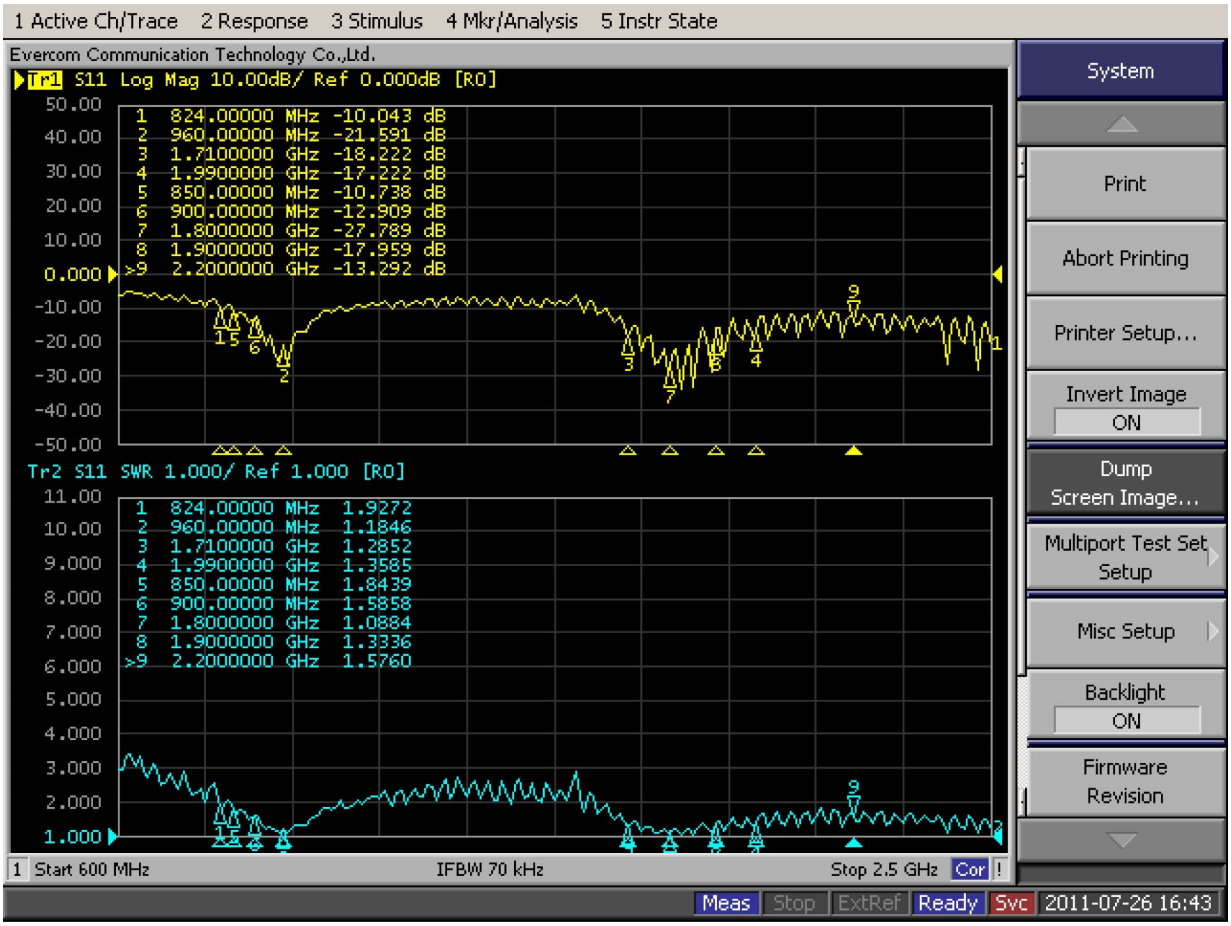


Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)
Gain=-0.58 dBi; Co-Pol Efficiency: 29.35%@Freq: 0.86000 GHz



Performance Data : VSWR



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

DO NOT
Discard with normal waste, please recycle.

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.

ROHS Directive 2011/65/EU and amendment 2015/863/EU
Specifies certain limits for hazardous substances.

WEEE Directive 2012/19/EU
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.
Environment Agency Producer Registration Number: **WEE/JB0104WV.**