CBL-2450U-5250U-5800U-A

Assembly including antenna element, cable, and connector

Customer specifies cable (diameter, length) and connector - performance may vary

2.4-2.5 GHz, 5.15-5.85 GHz Cable Antenna

Features

- Low profile for embedded applications
- Customizable cable and connector

Electrical Specifications*

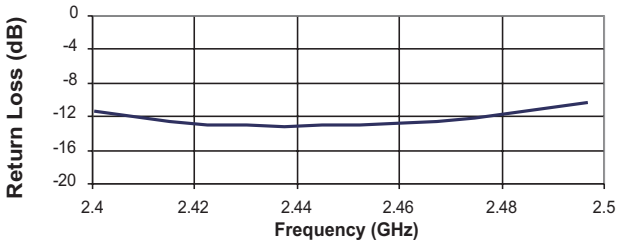
Frequency Range	2.4-2.5 GHz, 5.15-5.85 GHz
Gain	3.0 dBi peak at 2.44 GHz 3.25 dBi peak at 5.25 GHz 2.0 dBi peak at 5.8 GHz
VSWR	< 1.8:1 across 2.4 GHz band < 2.0:1 across 5 GHz band
Polarization	Linear
Radiation Pattern	Uni-directional
Feed Impedance	50 Ohms Unbalanced

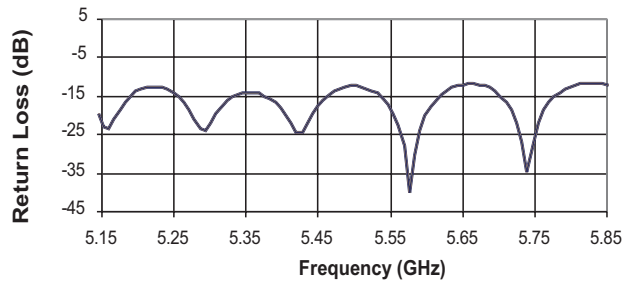
Mechanical Specifications

Antenna Element	0.88 x 0.59 x 0.21 in 22.4 x 15.0 x 5.31 mm
Antenna Element Weight	4.2 g

Cable (diameter, length) and connector may be modified upon request. Performance may vary.

Return Loss

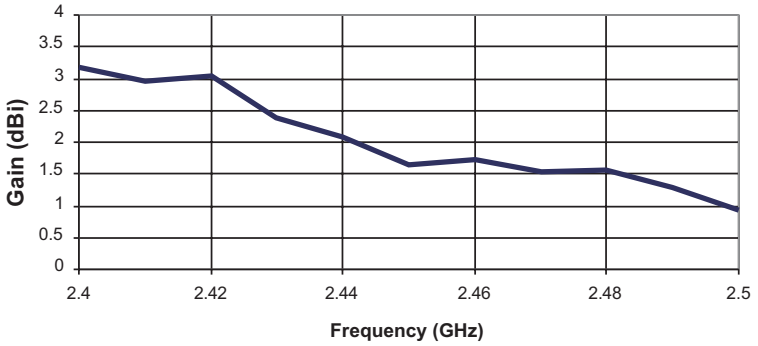


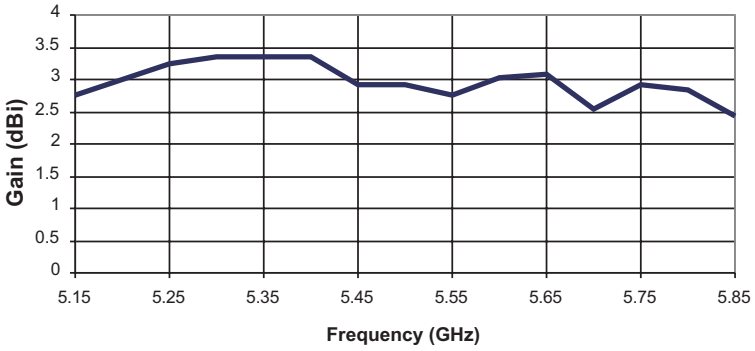


*Electrical performance is measured on a 48 x 19 cm desktop chassis. The antenna has a MMCX connector on 60 cm RG178 test cable. Performance will vary depending on cable length, cable type, and application.

2.4-2.5 GHz, 5.15-5.85 GHz Cable Antenna

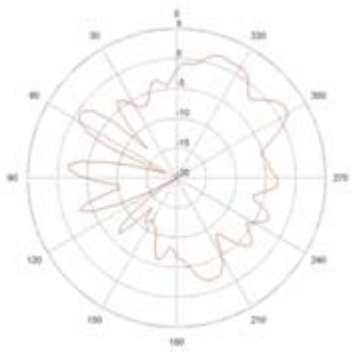
Swept Gain



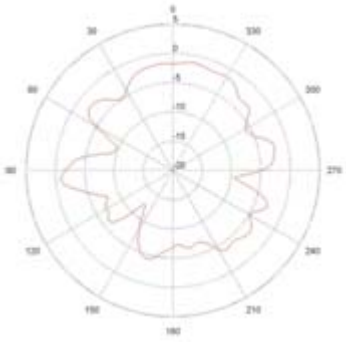


Diagrams Below are at 2.44 GHz

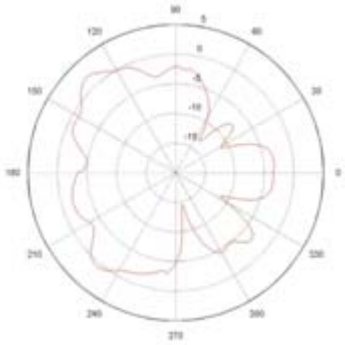
Elevation Cut Phi=0 Degrees



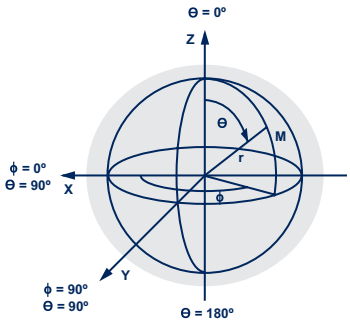
Elevation Cut Phi=90 Degrees



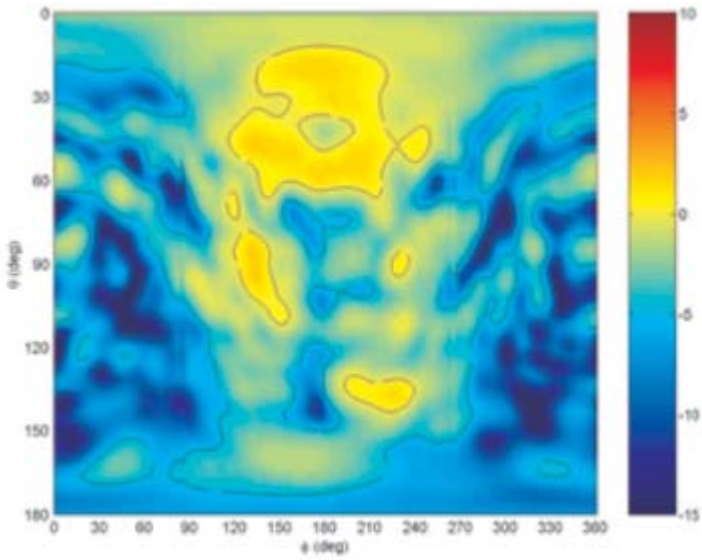
Azimuth Cut Theta=90 Degrees



Orientation



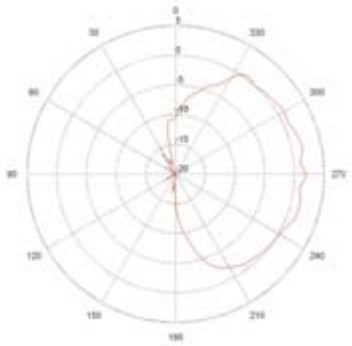
Spherical Gain Contour Map at 2.44 GHz



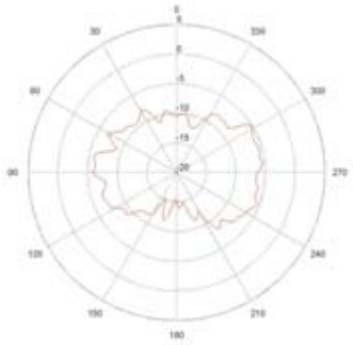
*Electrical performance is measured on a 48 x 19 cm desktop chassis. The antenna has a MMCX connector on 60 cm RG178 test cable. Performance will vary depending on cable length, cable type, and application.

Diagrams Below are at 5.25 GHz

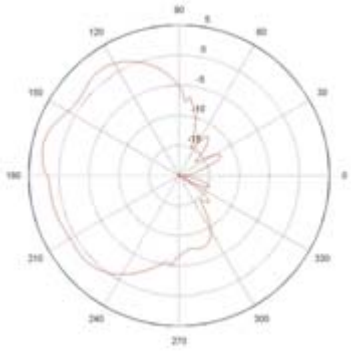
Elevation Cut Phi=0 Degrees



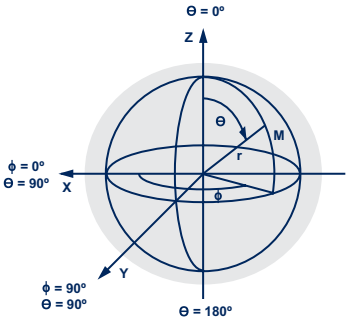
Elevation Cut Phi=90 Degrees



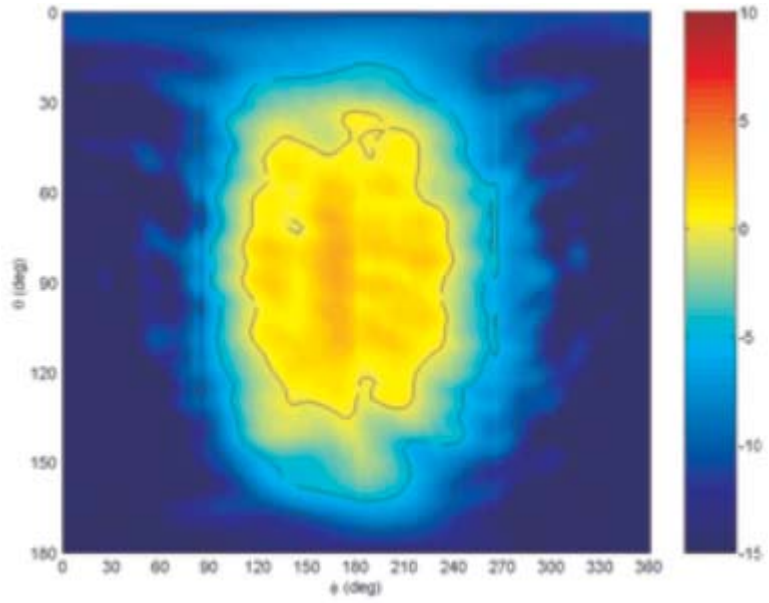
Azimuth Cut Theta=90 Degrees



Orientation



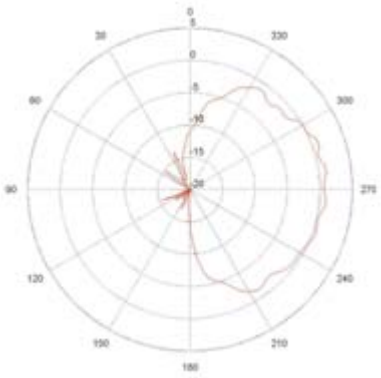
Spherical Gain Contour Map at 5.25 GHz



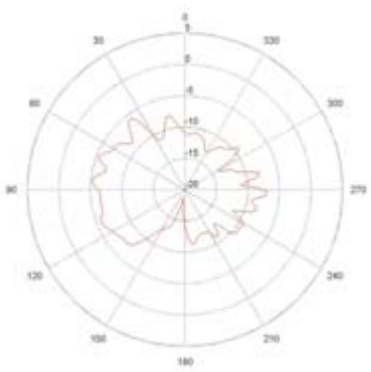
*Electrical performance is measured on a 48 x 19 cm desktop chassis. The antenna has a MMCX connector on 60 cm RG178 test cable. Performance will vary depending on cable length, cable type, and application.

Diagrams Below are at 5.8 GHz

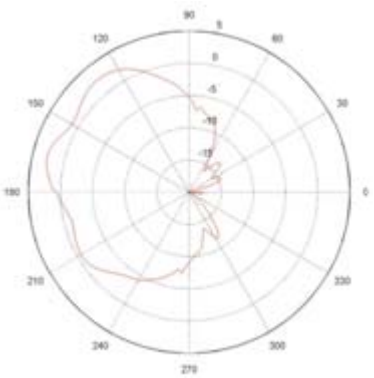
Elevation Cut Phi=0 Degrees



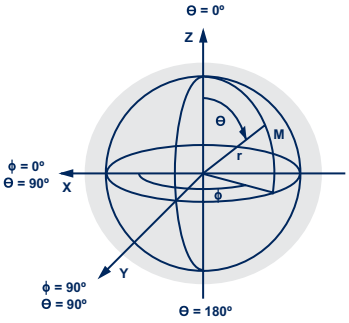
Elevation Cut Phi=90 Degrees



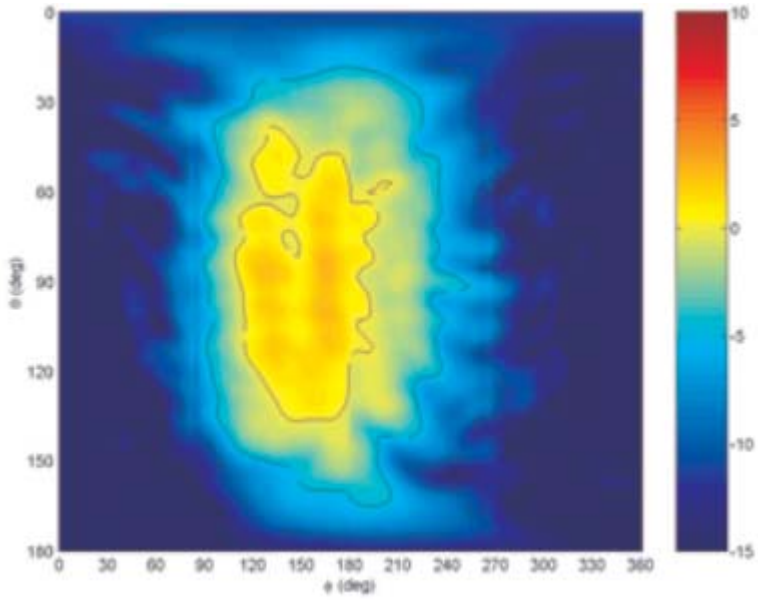
Azimuth Cut Theta=90 Degrees



Orientation



Spherical Gain Contour Map at 5.8 GHz



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