

CBL-EMWQU-A

Assembly including antenna element, cable, and connector

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



2.4-2.5 GHz, 4.9-5.9 GHz Cable Antenna

Features

- Low profile for embedded applications
- Customizable cable and connector

Electrical Specifications*

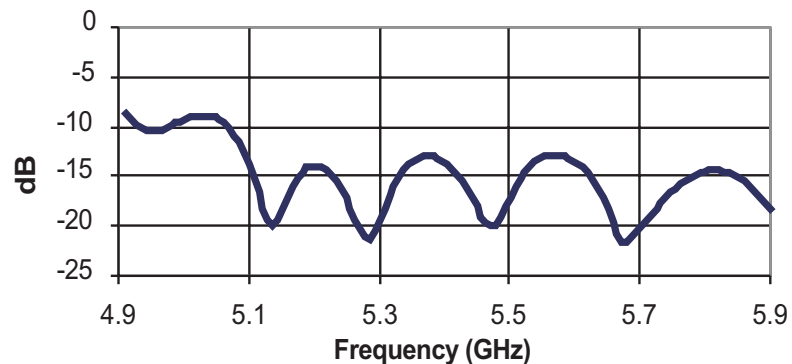
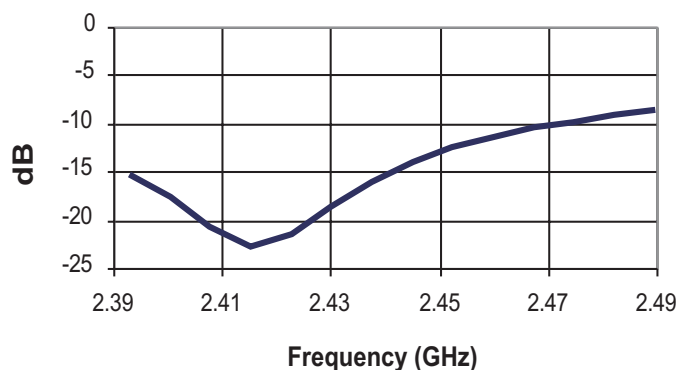
Frequency Range	2.4-2.5 GHz, 4.9-5.9 GHz
Efficiency	>60% across 2.4 GHz band >45% across 5 GHz band
VSWR	< 2.0:1 across 2.4 and 5 GHz bands
Polarization	Linear
Radiation Pattern	Uni-directional
Feed Impedance	50 Ohms Unbalanced

Mechanical Specifications

Antenna Element	1.5 x 0.31 x 0.17 in 38.1 x 7.9 x 4.3 mm
Antenna Element Weight	2.5 g

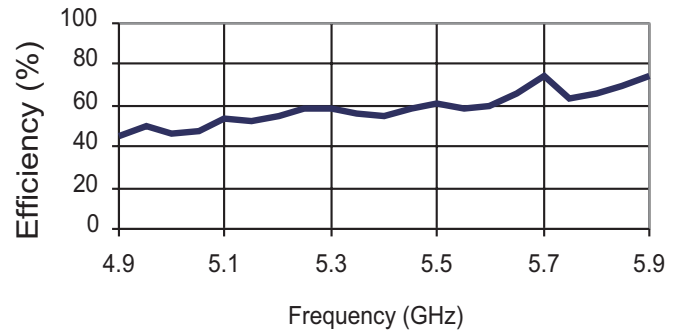
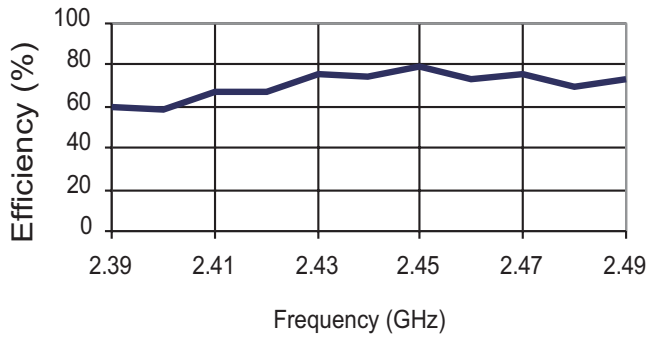
Cable (diameter, length) and connector may be modified upon request. Performance may vary.

Return Loss



*Electrical performance is measured in a laptop. Performance will vary depending on cable length, cable type, and application.

Swept Efficiency

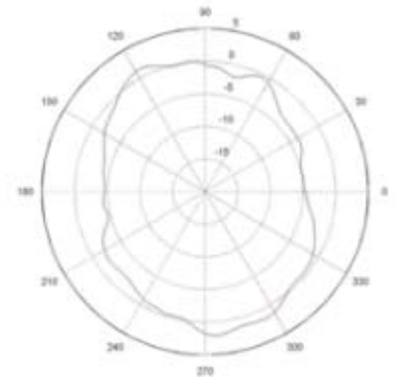
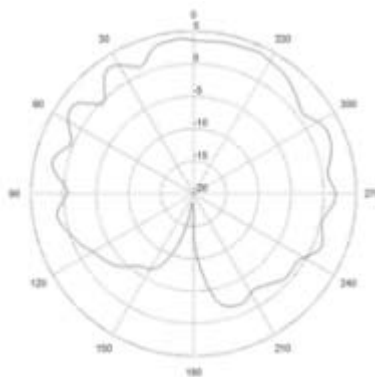
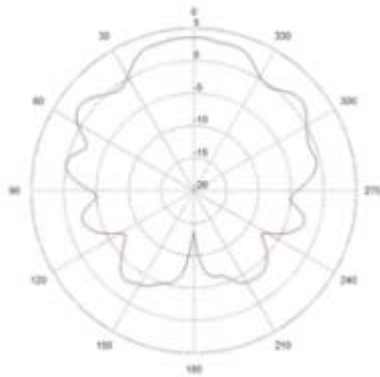


Diagrams Below are at 2.45 GHz (Diversity Data*)

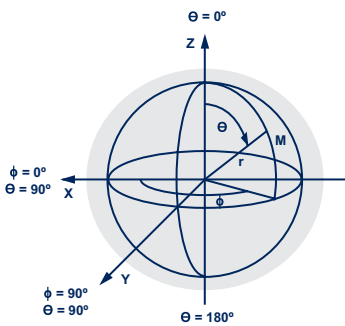
Elevation Cut **Phi=0 Degrees**

Elevation Cut **Phi=90 Degrees**

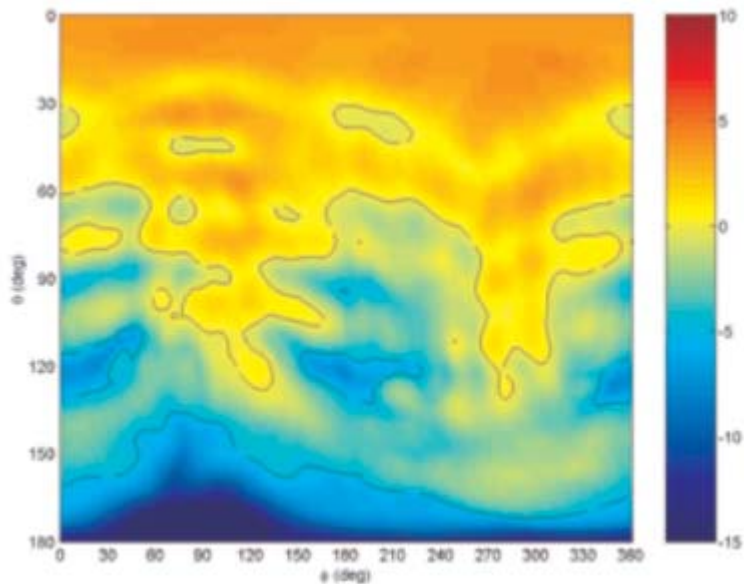
Azimuth Cut **Theta=90 Degrees**



Orientation



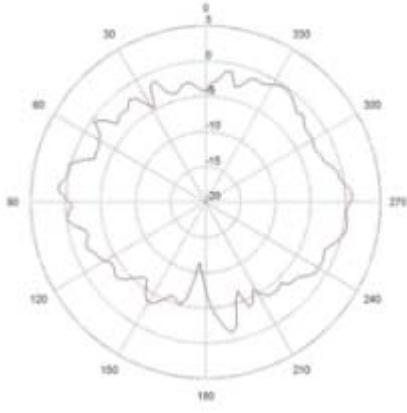
Spherical Gain Contour Map at 2.45 GHz



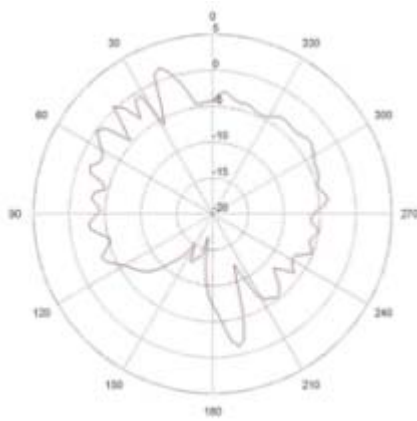
*Diversity data is a combination of left and right mounted antennas in a laptop screen with cable and connector loss removed. Performance will vary depending on cable length, cable type, and application.

Diagrams Below are at 5.0 GHz (Diversity Data*)

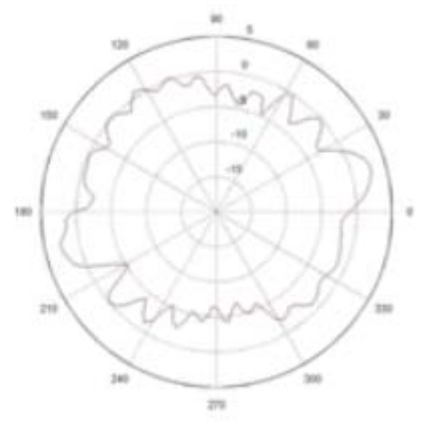
Elevation Cut **Phi=0 Degrees**



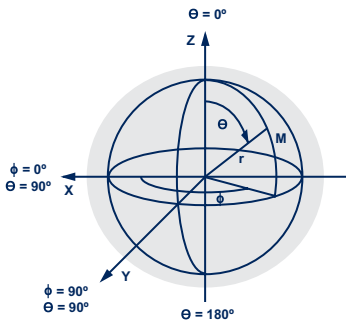
Elevation Cut **Phi=90 Degrees**



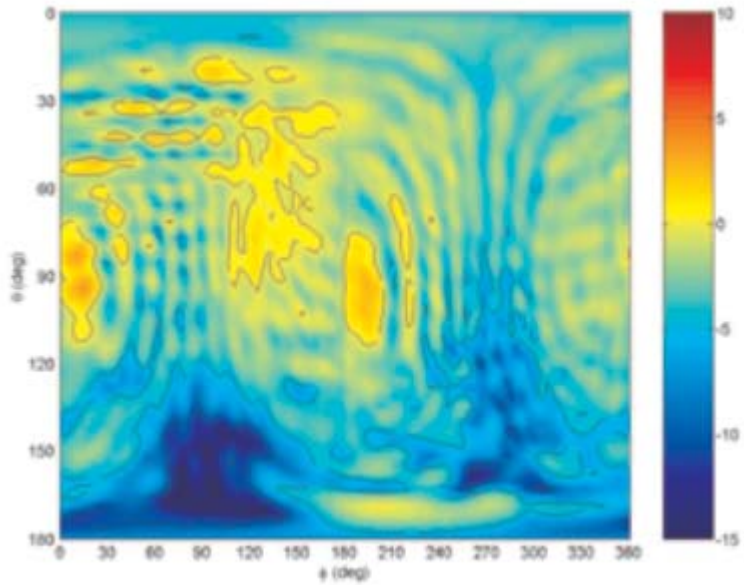
Azimuth Cut **Theta=90 Degrees**



Orientation



Spherical Gain Contour Map at 5.0 GHz



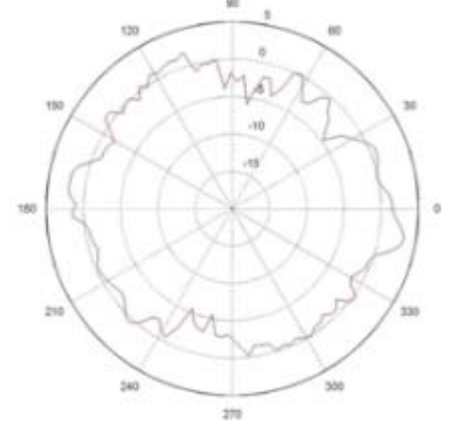
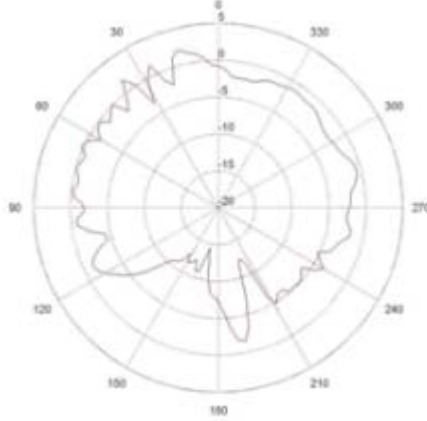
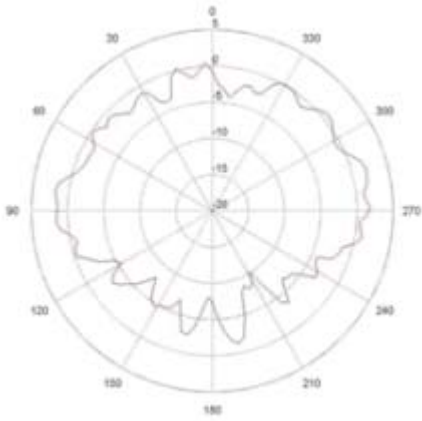
*Diversity data is a combination of left and right mounted antennas in a laptop screen with cable and connector loss removed. Performance will vary depending on cable length, cable type, and application.

Diagrams Below are at 5.25 GHz (Diversity Data*)

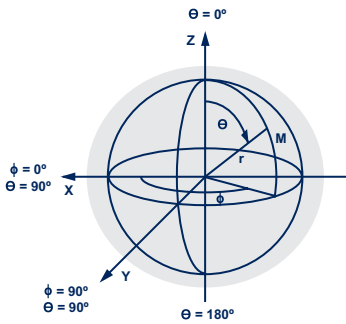
Elevation Cut **Phi=0 Degrees**

Elevation Cut **Phi=90 Degrees**

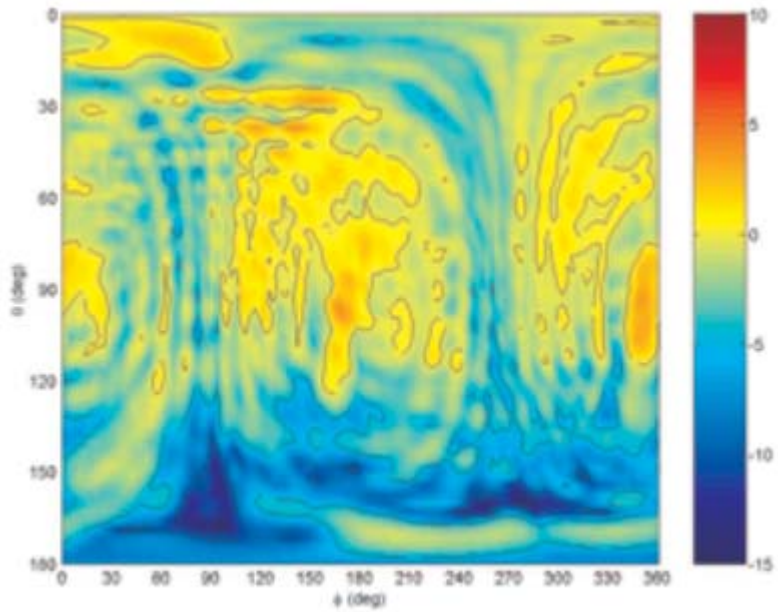
Azimuth Cut **Theta=90 Degrees**



Orientation



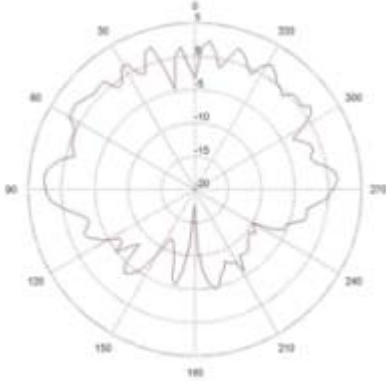
Spherical Gain Contour Map at 5.25 GHz



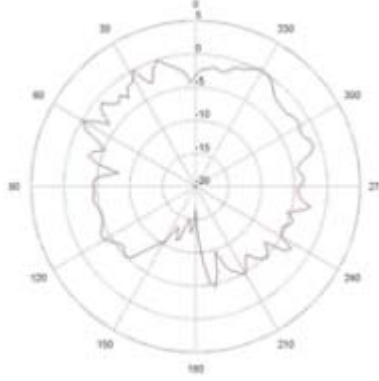
*Diversity data is a combination of left and right mounted antennas in a laptop screen with cable and connector loss removed. Performance will vary depending on cable length, cable type, and application.

Diagrams Below are at 5.8 GHz (Diversity Data*)

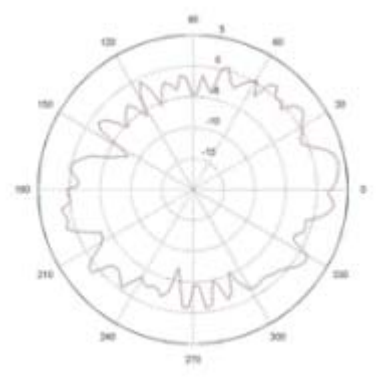
Elevation Cut **Phi=0 Degrees**



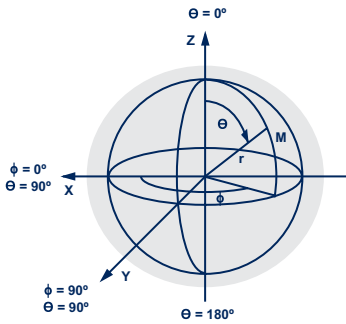
Elevation Cut **Phi=90 Degrees**



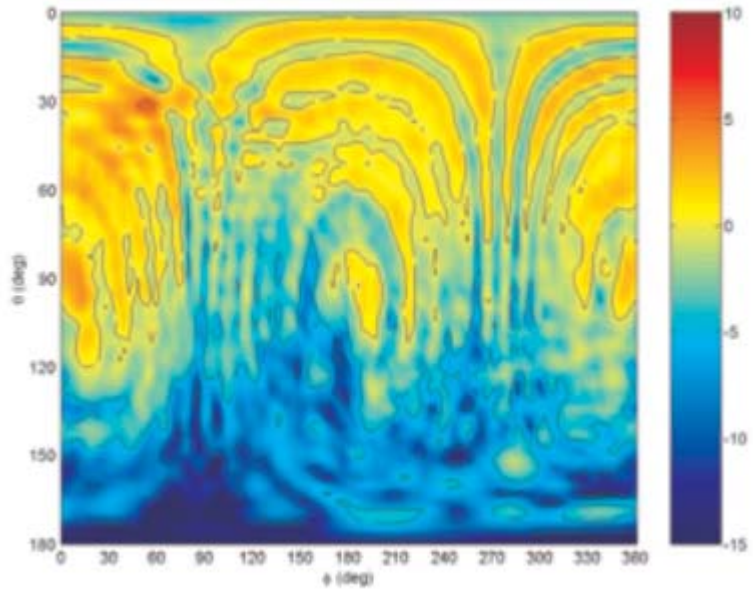
Azimuth Cut **Theta=90 Degrees**



Orientation



Spherical Gain Contour Map at 5.8 GHz



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