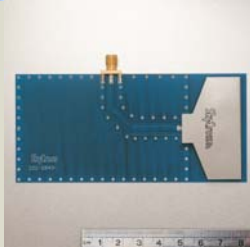


SMT-8TO25M
Antenna element

SMT-8TO25M-A
Assembly including antenna element, PCB
and female SMA connector as shown



800-2500 MHz Ultra-Wideband Antenna

Features

- Ideal for PC card applications and customizable for others
- 6 popular bands in one antenna: 800/ 900/1800/1900 + 1575 and 2450 MHz
- Azimuth Omni-directional

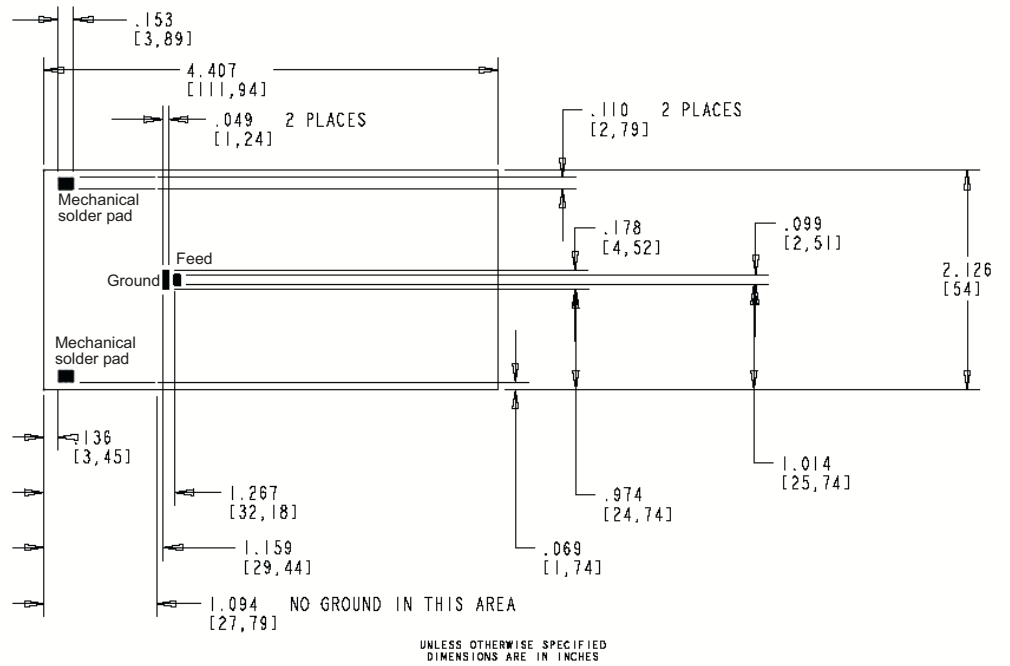
Electrical Specifications

Frequency Range	800-2500 MHz
Gain	> 0.7 dBi peak at 850 MHz > 1.8 dBi peak at 920 MHz > 1.0 dBi peak at 1800 MHz > 3.5 dBi peak at 1920 MHz > 3.0 dBi peak at 1575 MHz > 4.3 dBi peak at 2450 MHz
VSWR	< 2.2:1 across 890-2500 MHz
Polarization	Linear
Radiation Pattern	Azimuth Omni-directional
Feed Impedance	50 Ohms Unbalanced

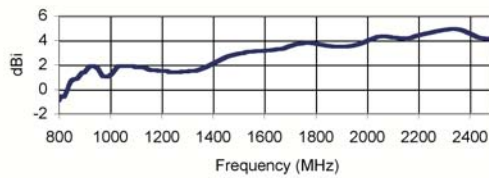
Mechanical Specifications

Antenna Element	1.97 x 1.10 x .32 in 50.0 x 27.9 x 8.1 mm
Assembly PCB	4.41 x 2.13 x .04 in 112 x 54.1 x 1.0 mm
Area of PCB that is Ground	3.31 x 2.13 in 84.1 x 54.1 mm
Antenna Element Weight	3.4 g

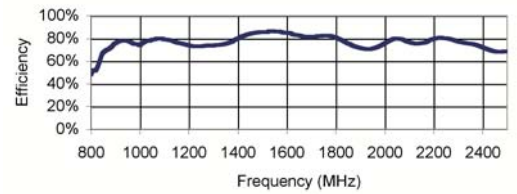
Footprint



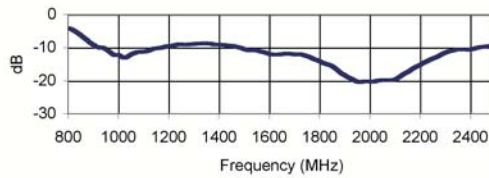
Peak Gain



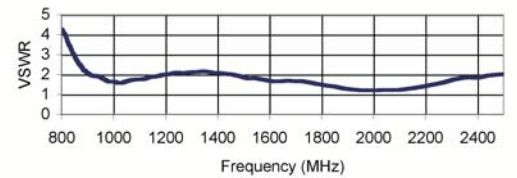
Efficiency



Return Loss

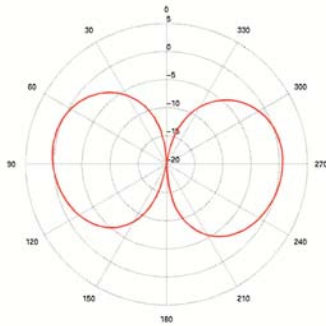


VSWR

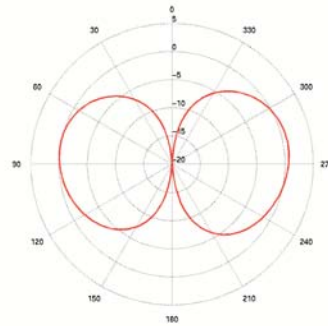


Diagrams Below are at 860 MHz

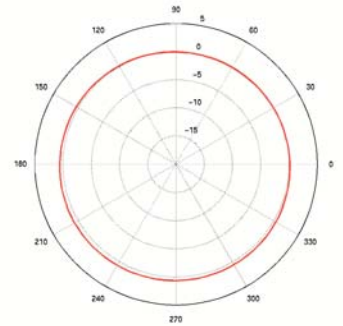
Elevation Cut **Phi=0 Degrees**



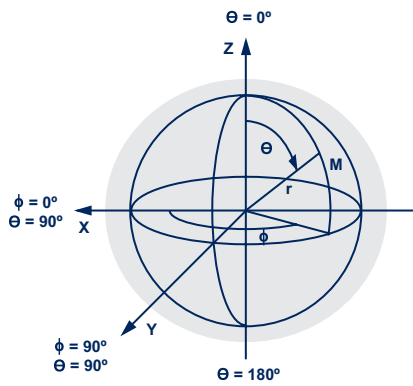
Elevation Cut **Phi=90 Degrees**



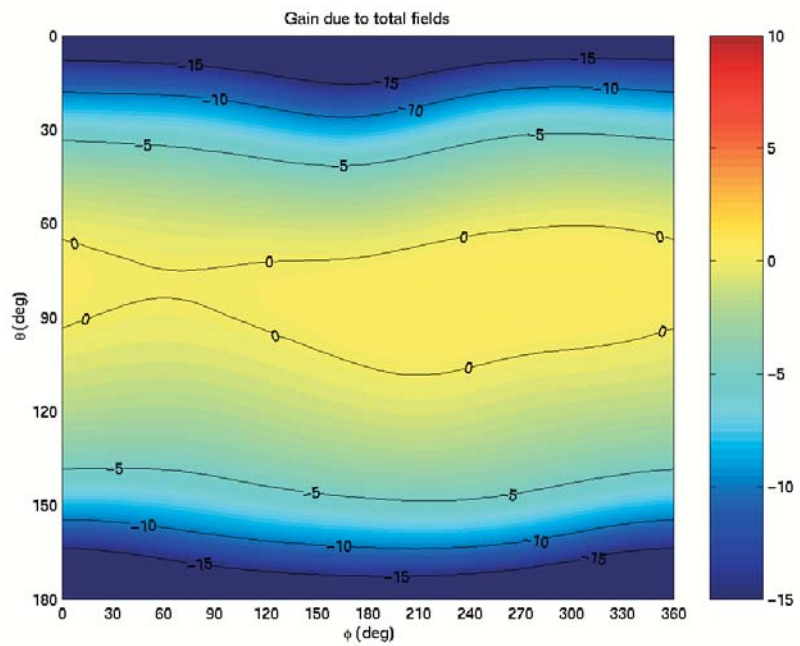
Azimuth Cut **Theta=90 Degrees**



Orientation

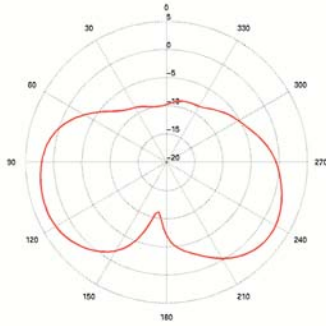


Spherical Gain Contour Map at 860 MHz

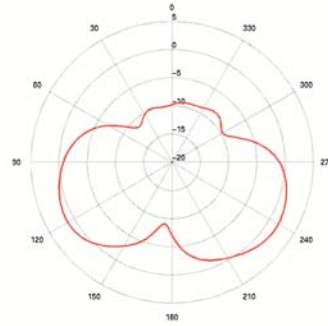


Diagrams Below are at 1575 MHz

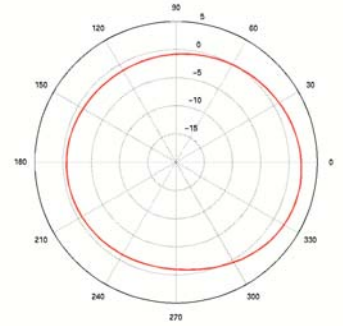
Elevation Cut **Phi=0 Degrees**



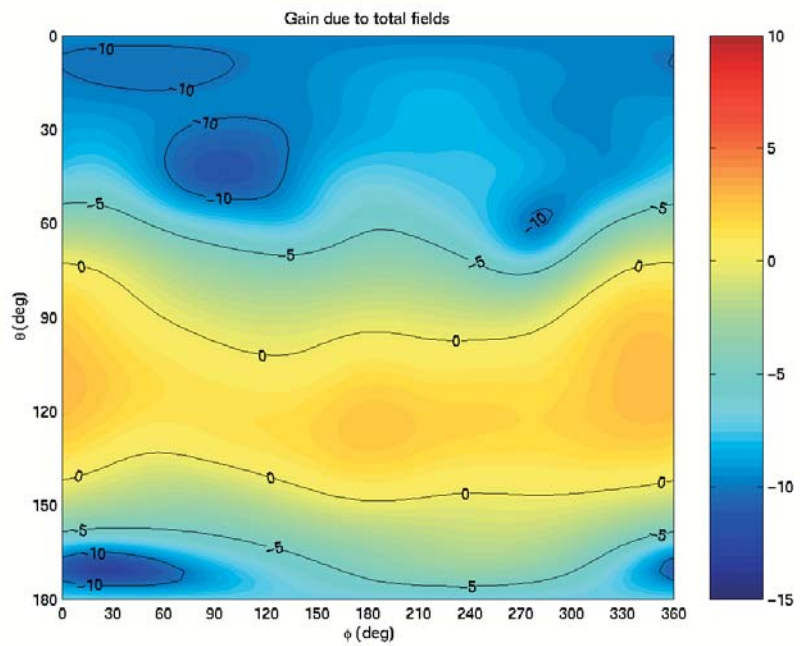
Elevation Cut **Phi=90 Degrees**



Azimuth Cut **Theta=90 Degrees**

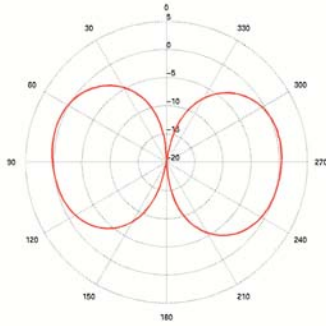


Spherical Gain Contour Map at 1575 MHz

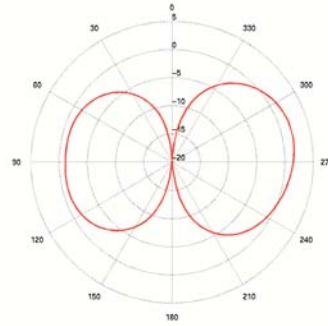


Diagrams Below are at 920 MHz

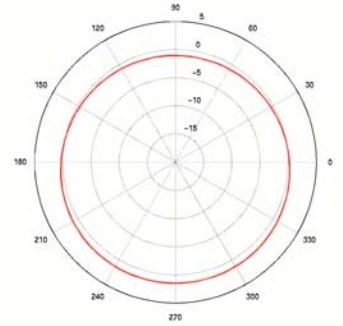
Elevation Cut **Phi=0 Degrees**



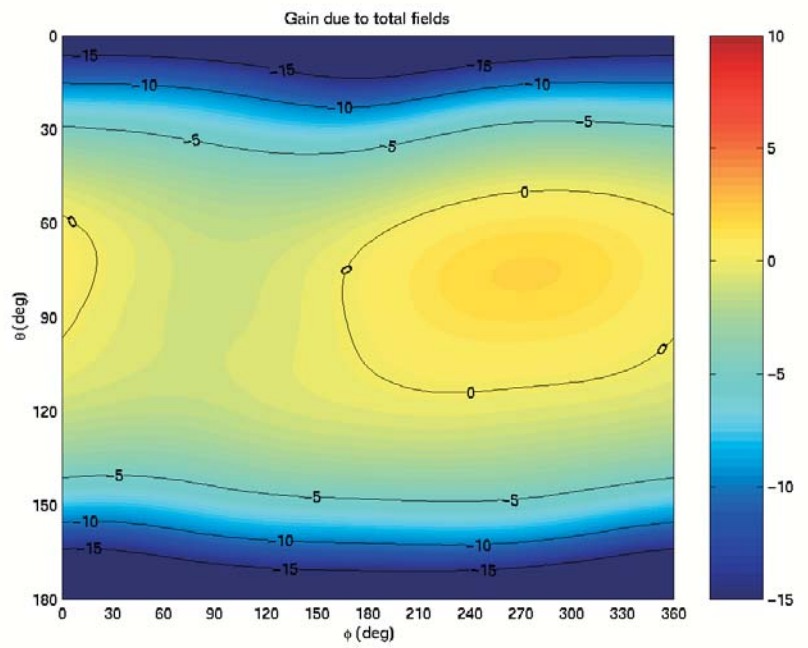
Elevation Cut **Phi=90 Degrees**



Azimuth Cut **Theta=90 Degrees**

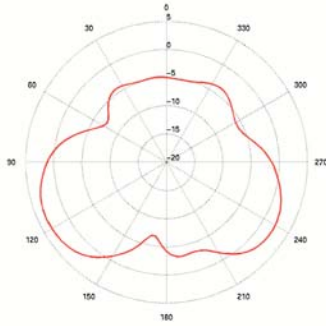


Spherical Gain Contour Map at 920 MHz

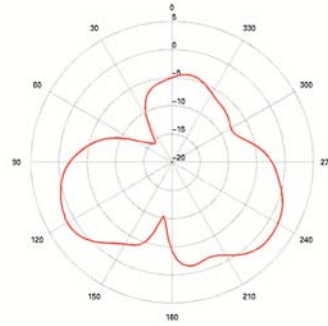


Diagrams Below are at 1800 MHz

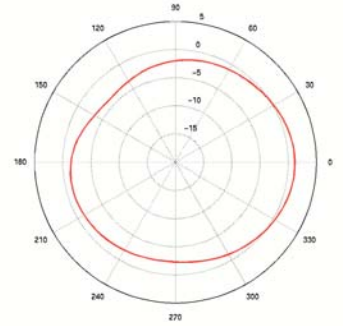
Elevation Cut **Phi=0 Degrees**



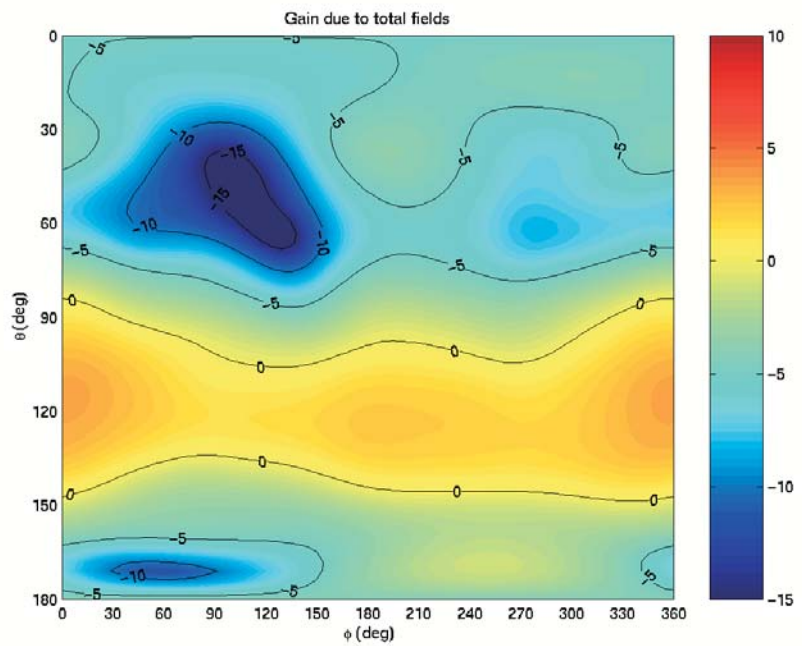
Elevation Cut **Phi=90 Degrees**



Azimuth Cut **Theta=90 Degrees**

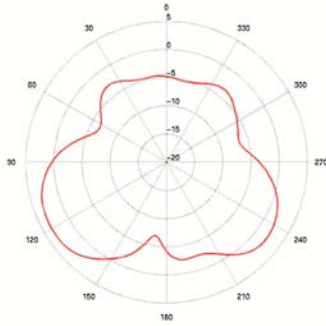


Spherical Gain Contour Map at 1800 MHz

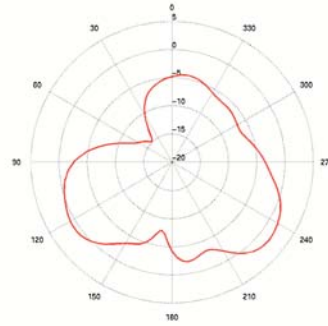


Diagrams Below are at 1920 MHz

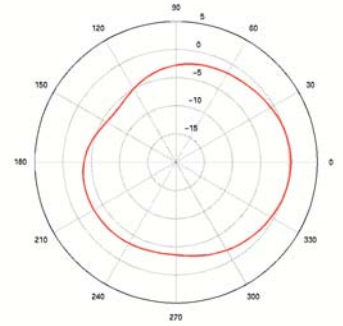
Elevation Cut **Phi=0 Degrees**



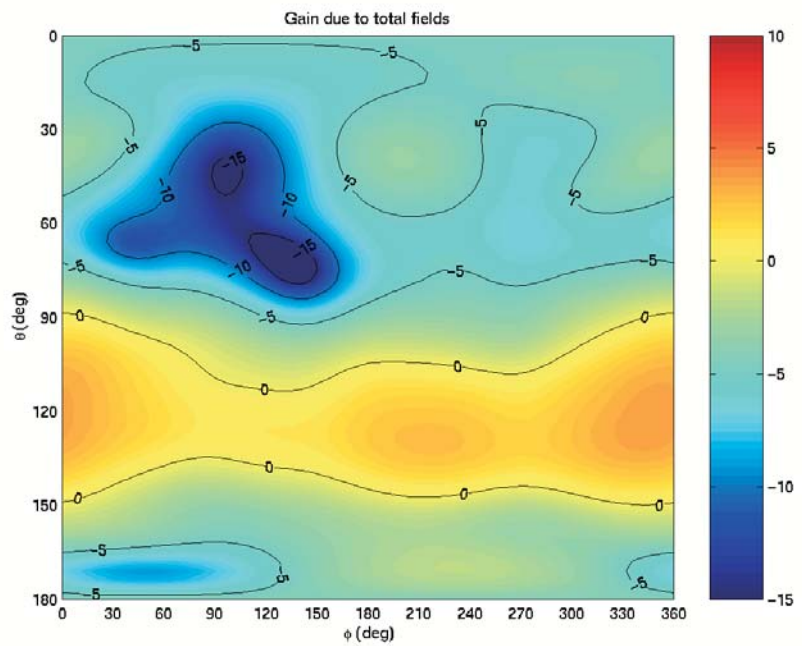
Elevation Cut **Phi=90 Degrees**



Azimuth Cut **Theta=90 Degrees**

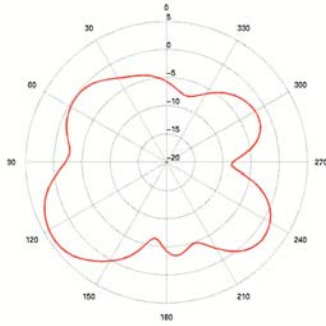


Spherical Gain Contour Map at 1920 MHz

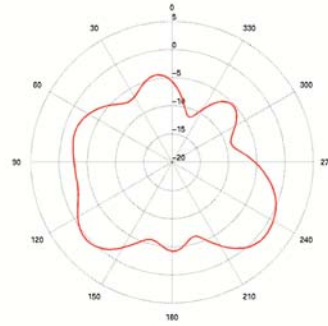


Diagrams Below are at 2440 MHz

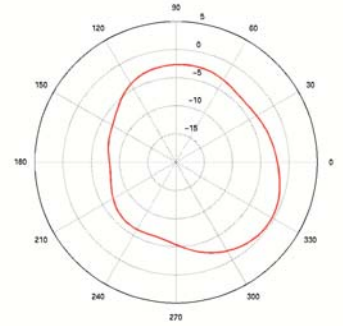
Elevation Cut **Phi=0 Degrees**



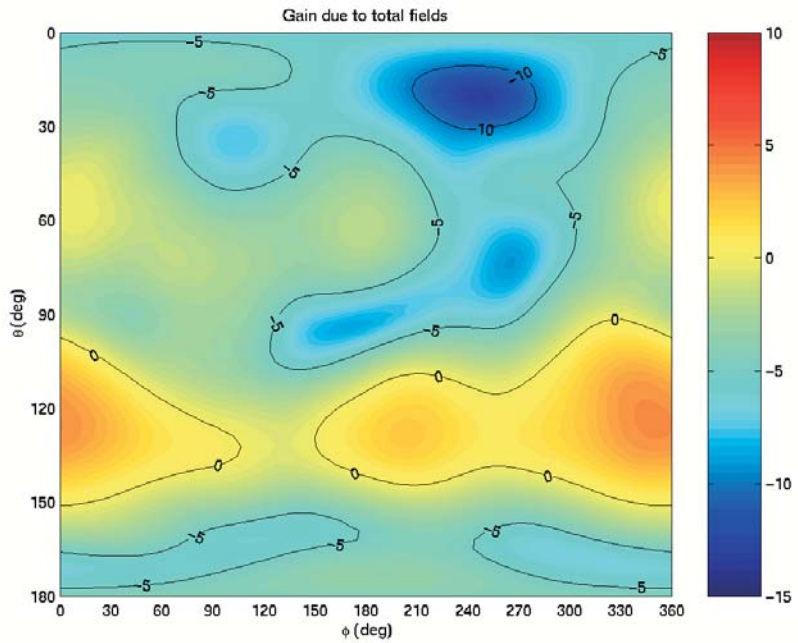
Elevation Cut **Phi=90 Degrees**



Azimuth Cut **Theta=90 Degrees**



Spherical Gain Contour Map at 2440 MHz



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