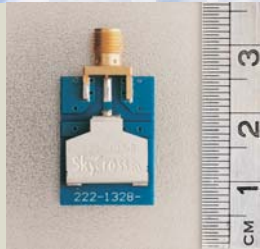


SMT-3TO10M
Antenna element

SMT-3TO10M-A
Assembly including antenna element, PCB
and female SMA connector as shown



3.1-10 GHz Ultra-Wideband Antenna

Features

- Small and compact
- Linear phase across frequency
- Azimuth Omni-directional

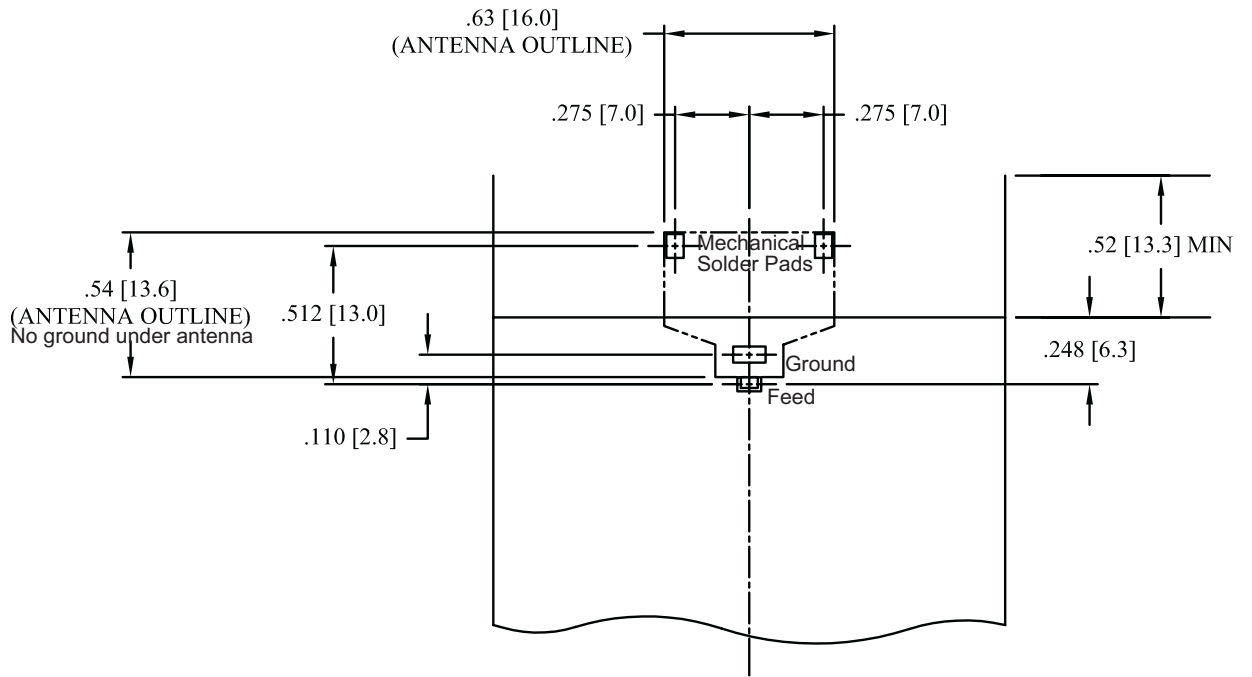
Electrical Specifications

Frequency Range	3.1-10.0 GHz
Gain	4.4 dBi peak at 4.5 GHz
VSWR	< 2.0:1 across 3.6-9.1 GHz
Polarization	Linear
Radiation Pattern	Azimuth Omni-directional
Feed Impedance	50 Ohms Unbalanced

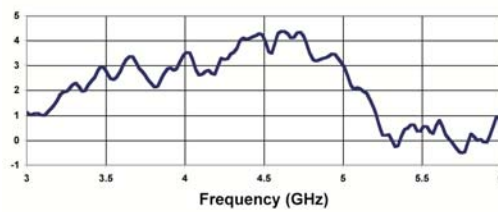
Mechanical Specifications

Antenna Element	0.54 x 0.63 x 0.12 in 13.6 x 16.0 x 3.0 mm
Assembly PCB	1.03 x 0.73 x .04 in 26.2 x 18.5 x 1.0 mm
Area of PCB that is Ground	0.48 x 0.73 in 12.2 x 18.5 mm
Antenna Element Weight	0.5 g

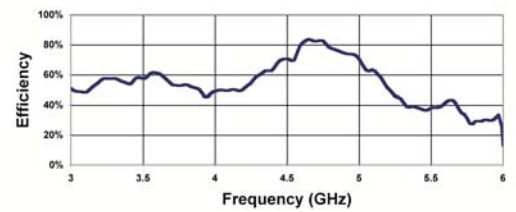
Footprint



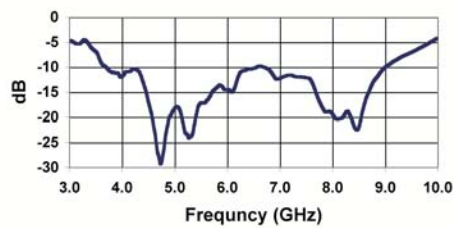
Peak Gain



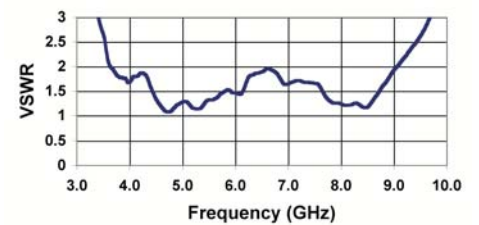
Efficiency



Return Loss

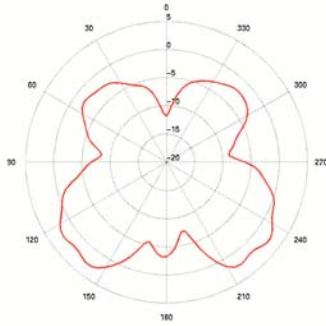


VSWR

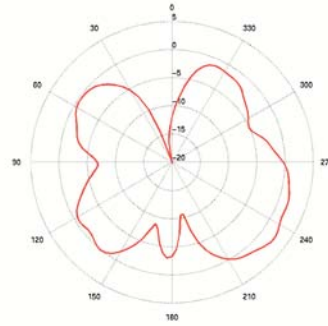


Diagrams Below are at 4900 MHz

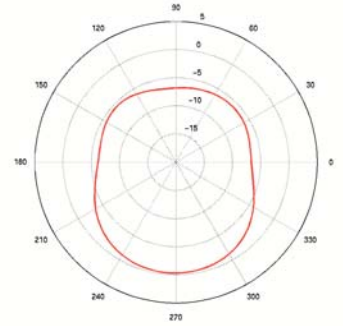
Elevation Cut **Phi=0 Degrees**



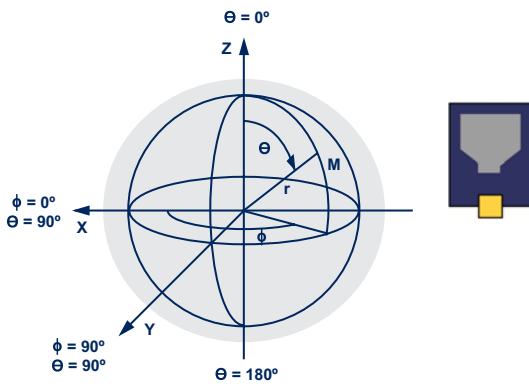
Elevation Cut **Phi=90 Degrees**



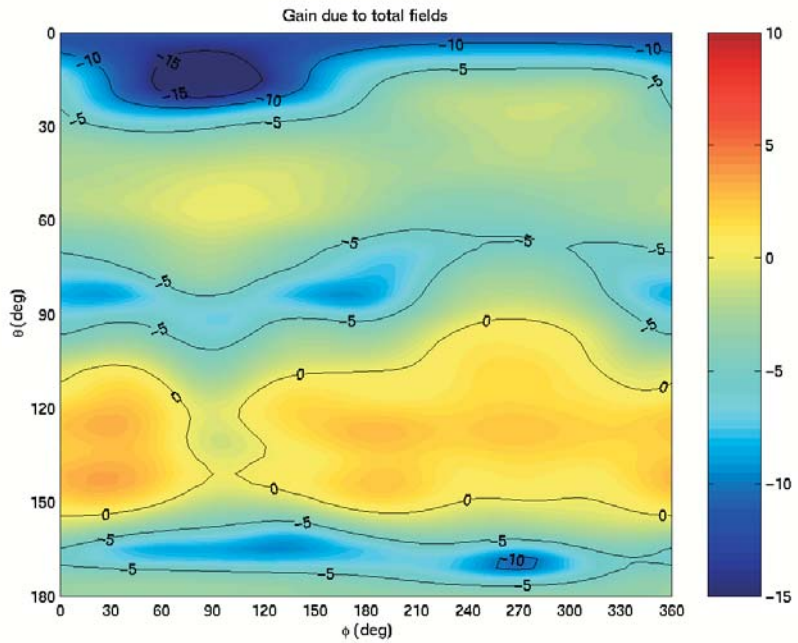
Azimuth Cut **Theta=90 Degrees**



Orientation

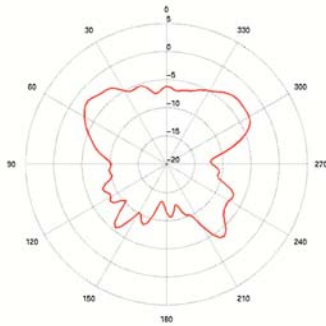


Spherical Gain Contour Map at 4900 MHz

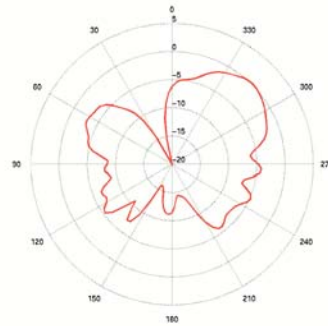


Diagrams Below are at 5880 MHz

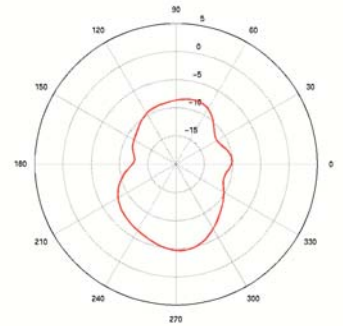
Elevation Cut **Phi=0 Degrees**



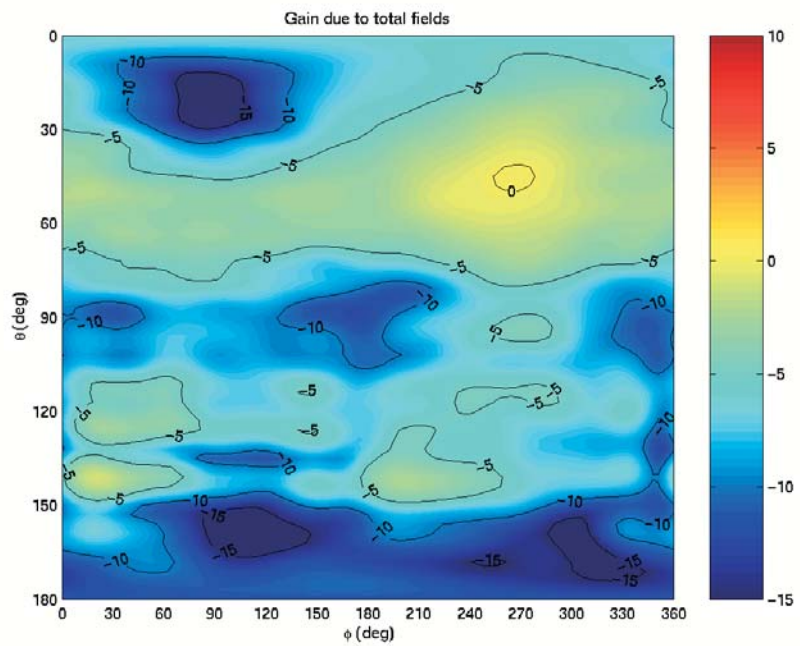
Elevation Cut **Phi=90 Degrees**



Azimuth Cut **Theta=90 Degrees**



Spherical Gain Contour Map at 5880 MHz



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