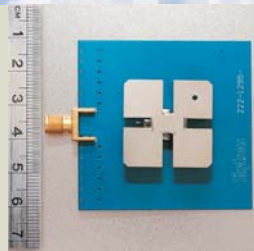


**EM-2450M**  
Antenna element

**EM-2450M-A**

Assembly including antenna element, PCB and female SMA connector as shown



## 2.4 GHz Monopole Antenna

### Features

- Uniform Omni-directional Pattern
- Very Efficient MLA Technology
- Low Profile for Embedded Applications

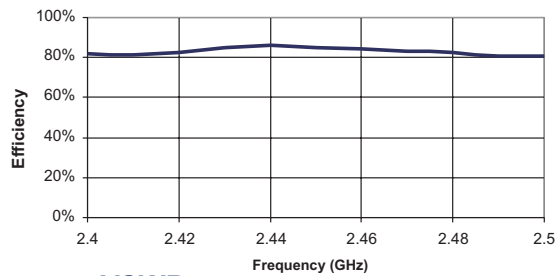
### Electrical Specifications

Frequency Range	2.4 – 2.5 GHz
Gain	> 1.3 peak across band
VSWR	< 1.6 across band
Polarization	Linear
Radiation Pattern	Azimuth Omni-directional
Feed Impedance	50 Ohms Unbalanced

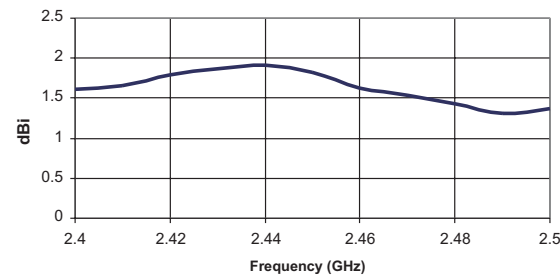
### Mechanical Specifications

Antenna Element	1.0 x 1.0 x 0.3 in 25.4 x 25.4 x 7.6 mm
Assembly Ground Plane	2.0 x 2.0 x 0.03 in 50.8 x 50.8 x 0.8 mm
Antenna Element Weight	1.2 g

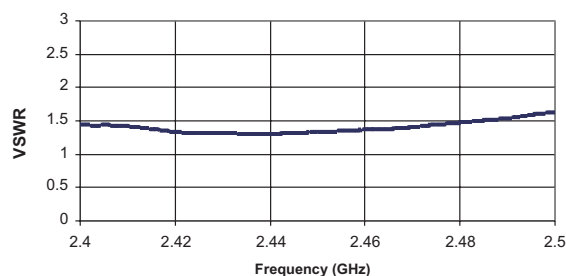
### Efficiency



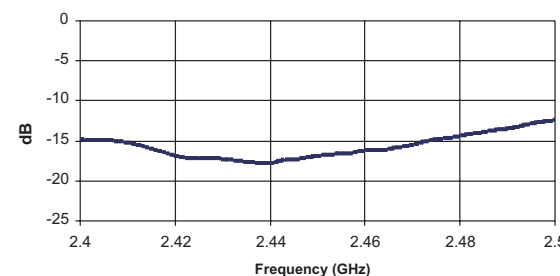
### Peak Gain



### VSWR

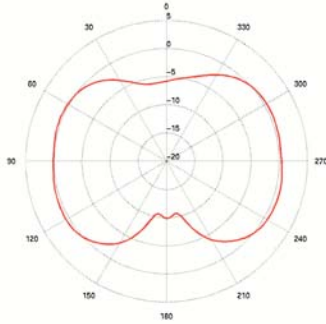


### Return Loss

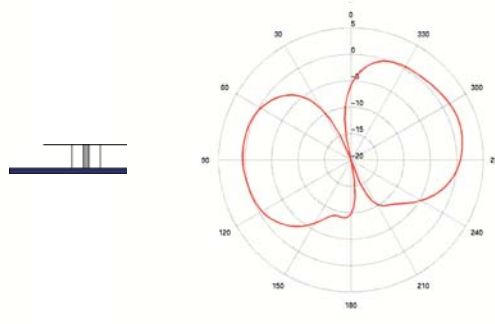


All antenna measurements are taken in free space. Results may vary depending on the particular implementation.

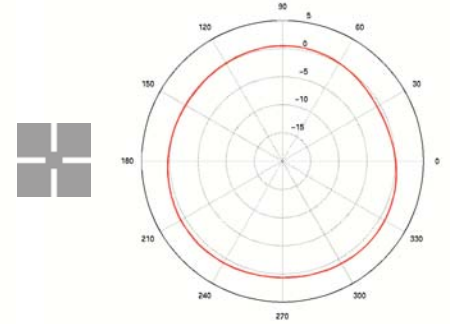
Elevation Cut **Phi=0 Degrees**



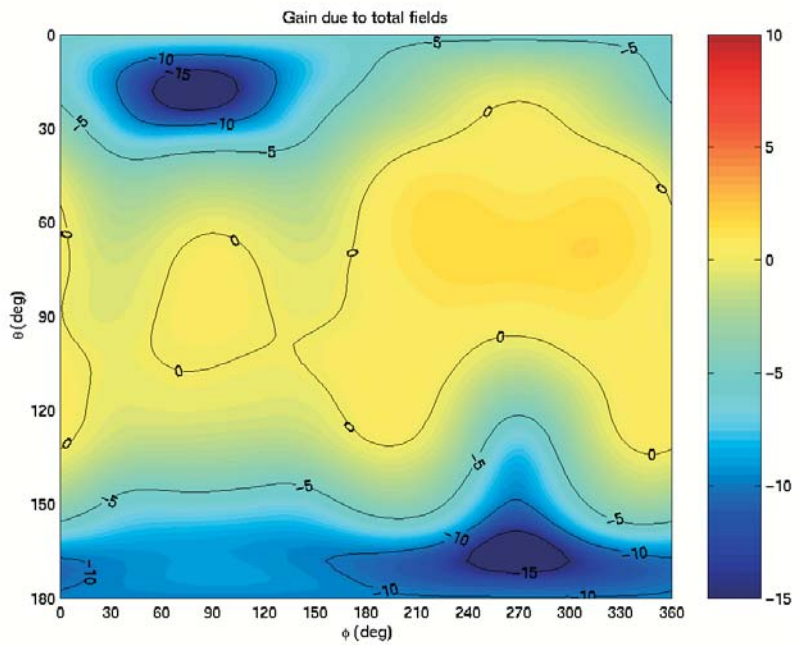
Elevation Cut **Phi=90 Degrees**



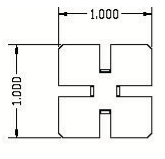
Azimuth Cut **Theta=90 Degrees**



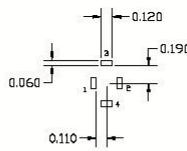
## Spherical Gain Contour Map at 2.45 GHz



## Footprint



PART DIMENSIONS AND PIN OUT, VIEW AS SEEN THROUGH PART FROM TOP



PAD LOCATIONS ON PART, VIEW AS SEEN THROUGH PART FROM TOP

PIN #	DESCRIPTION
1	FEED
2	FEED
3	GND
4	GND

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