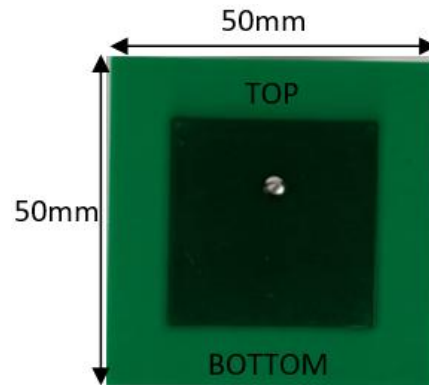


PA-2450-RM-01

2.45 GHz Dipole Antenna Datasheet

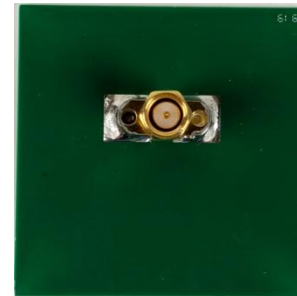
DESCRIPTION

Powercast's PA-2450-RM-01 antenna is a patch antenna designed to work in the UHF RF range. It has linear polarization and a directional radiation pattern. The SMA connector makes it ideal when testing with development kits that need UHF RF energy, specifically energy harvesting.



ANTENNA PARAMETERS

Parameter	Specification
Frequency Range	2.4 – 2.5 GHz
Peak Gain	3.90 (5.91 dBi)
Return Loss	< -10dB (2.42 – 2.47 GHz)
Impedance	50 ohms
Radiation Pattern	Single broadside lobe
Half-Power Beamwidth	58° horizontal 55° vertical (<i>reference picture orientation</i>)
Polarization	Linear – Vertical
VSWR	< 2:1 (2.43 – 2.47 GHz)
Connector	SMA
PCB Dimensions	50 x 50 x 1.6 mm



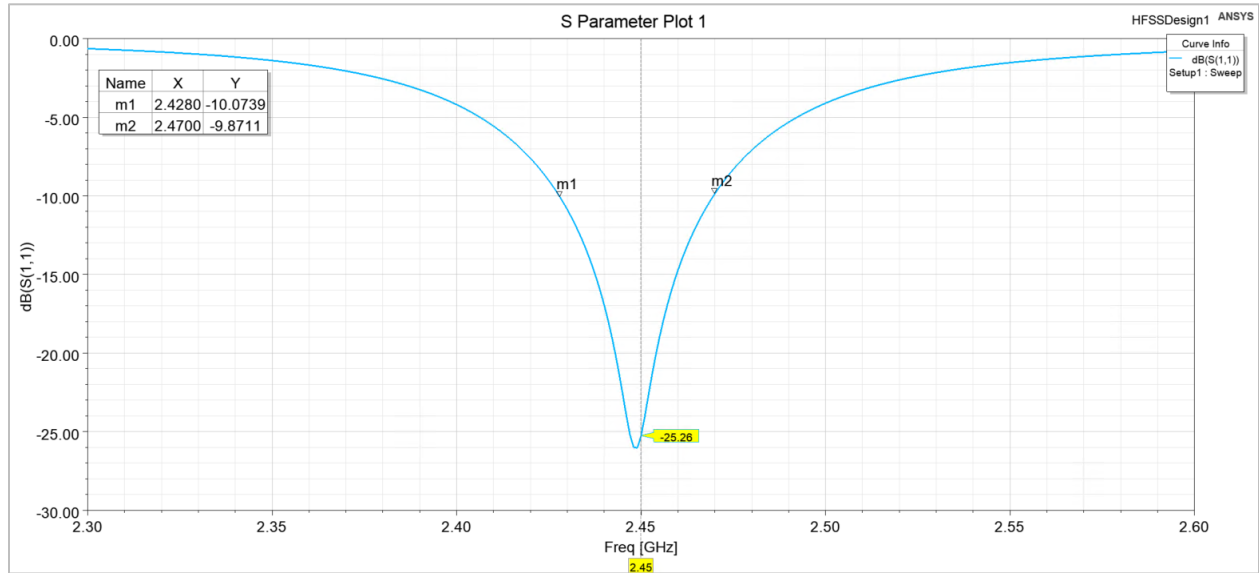
Powercast products and technology are covered by one or more patents with other patents pending. All patent and trademark information can be found at <http://www.powercastco.com/IP/>

PA-2450-RM-01

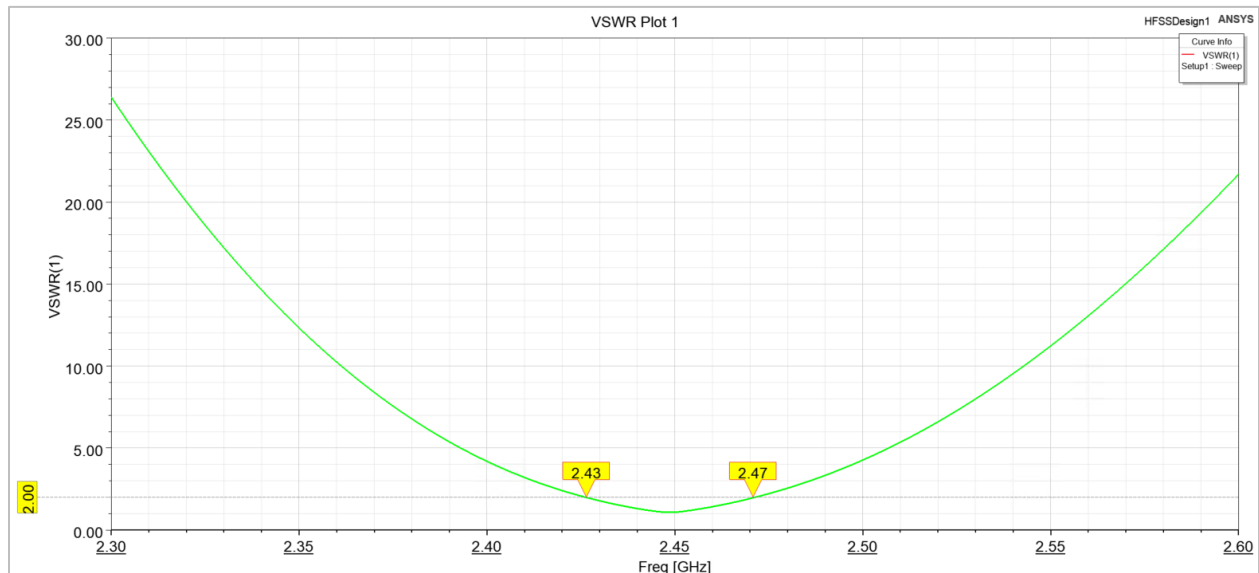
2.45 GHz Dipole Antenna Datasheet



RETURN LOSS



VSWR



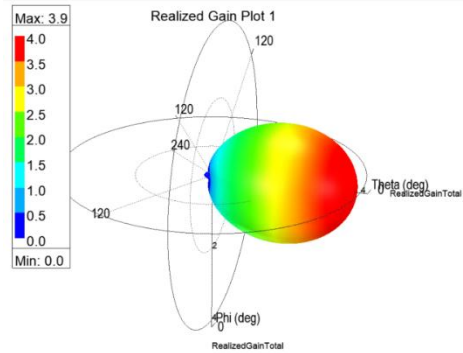
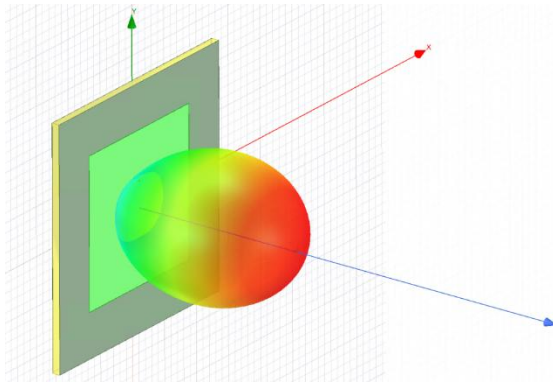
PA-2450-RM-01

2.45 GHz Dipole Antenna Datasheet

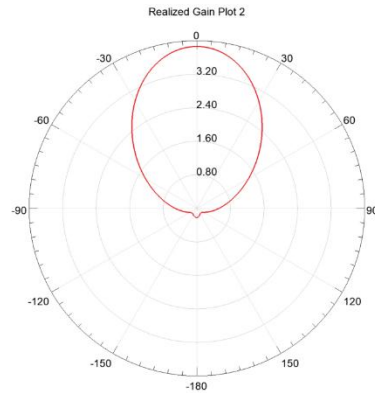
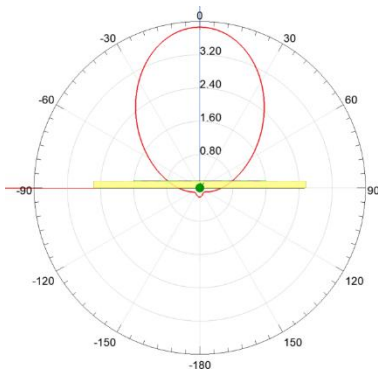


RADIATION PATTERN, LINEAR

Radiation Pattern



Front Radiation Pattern

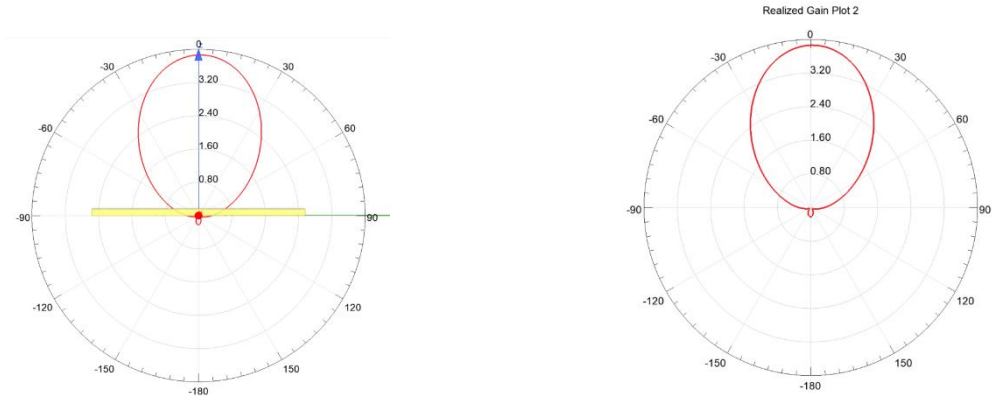


PA-2450-RM-01

2.45 GHz Dipole Antenna Datasheet



Side Radiation Pattern



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