

# Broadband Circular Polarized Dipole Antenna

TECHNICAL DATA SHEET

22-04-1904-01A

## Electrical specifications:

Antenna type	Broadband CP Antenna
Frequency	1.17-3GHz
Gain	>5dBi
Impedance	50 Ohm
Return Loss	<-10dB
VSWR	≤ 2.5:1
Half power beam width	90° or more in Azimuthal Plane 90° or more in Elevation Plane
Polarization	Circular
Beam pattern	Directional
Power handled	>100W



## Mechanical Specifications:

Dimension	:160mmX100mm diameter
Connector	: SMA Female
Mounting material	: Stainless Steel/Aluminum

## Environmental Specifications:

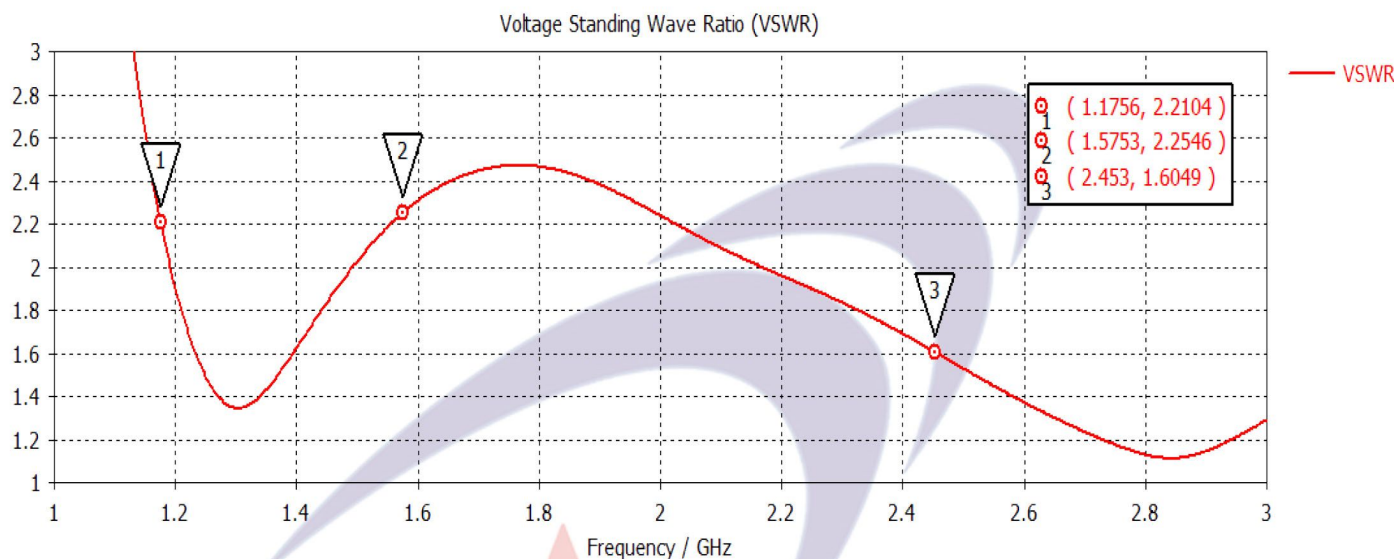
Operation	: -30 °C to +85 °C
Humidity	: 0-95%

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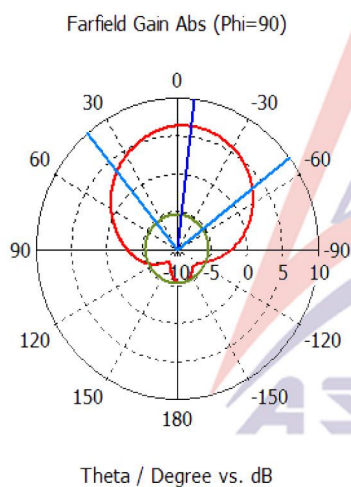
## Vswr:



## Radiation patterns:

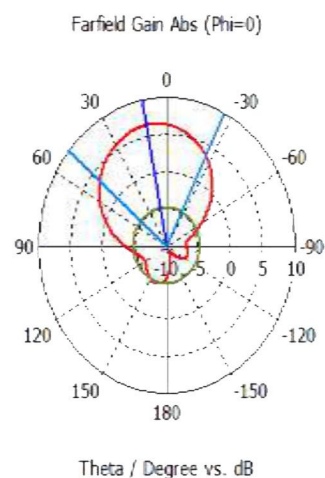
For 1.175GHz:

Azimuthal plane:



Frequency = 1.175  
 Main lobe magnitude = 6.36 dB  
 Main lobe direction = -7.0 deg.  
 Angular width (3 dB) = 92.2 deg.  
 Side lobe level = -11.8 dB

Elevation plane:



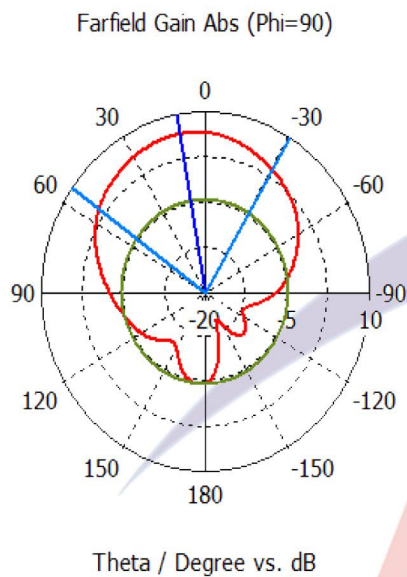
Frequency = 1.175  
 Main lobe magnitude = 6.52 dB  
 Main lobe direction = 11.0 deg.  
 Angular width (3 dB) = 76.8 deg.  
 Side lobe level = -11.2 dB

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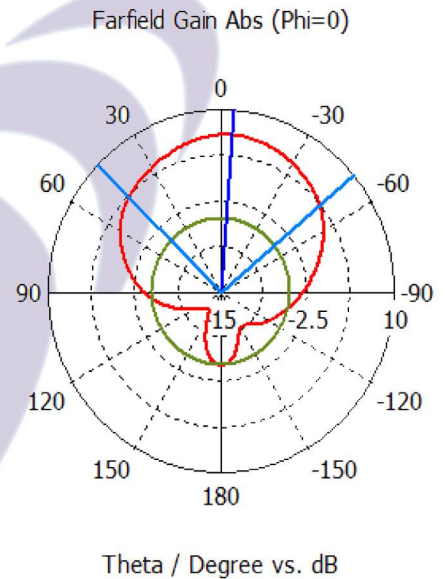
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For 2.5GHz:



Frequency = 2.51  
Main lobe magnitude = 6.7 dB  
Main lobe direction = 10.0 deg.  
Angular width (3 dB) = 85.6 deg.  
Side lobe level = -11.3 dB



Frequency = 2.51  
Main lobe magnitude = 6.54 dB  
Main lobe direction = -4.0 deg.  
Angular width (3 dB) = 95.6 deg.  
Side lobe level = -11.5 dB