



*Circularly Polarized Horn Antenna 13dBi Typ. Gain,
8-18 GHz Frequency Range*

Circularly Polarized Horn Antenna Data Sheet

Features

- Low VSWR
- High Power handling
- Symmetrical Plane Beamwidth
- RHCP or LHCP
- Military Airborne Applications

Descriptions

RF MISO' s Model RM-CPHA818-13 is RHCP or LHCP circularly polarized horn antenna that operates from 8 to 18GHz. The antenna offers a typical gain of 13 dBi and low VSWR 1.5 Typ.

The antenna is equipped with a circular polarizer, a circular waveguide to circular waveguide converter and a conical horn antenna. The gain of the antenna is uniform in the entire frequency band, the pattern is symmetrical, and the working efficiency is high. Antennas are widely used in antenna far-field testing, radio frequency radiation testing and other scenarios.

Specifications

RM-CPHA818-13		
Parameters	Specification	Unit
Frequency Range	8-18	GHz
Gain	13 Typ.	dBi
VSWR	1.5 Typ.	
AR	2 Typ.	dB
Polarization	RHCP or LHCP	
Interface	SMA-Female	
Material	Al	
Finishing	Paint	
Average Power	50	W
Peak Power	3000	W
Size (L*W*H)	215.9*32.4*62.5 (±5)	mm
Weight	0.252	kg

Circularly Polarized Horn Antenna 13dBi Typ. Gain,
8-18 GHz Frequency Range

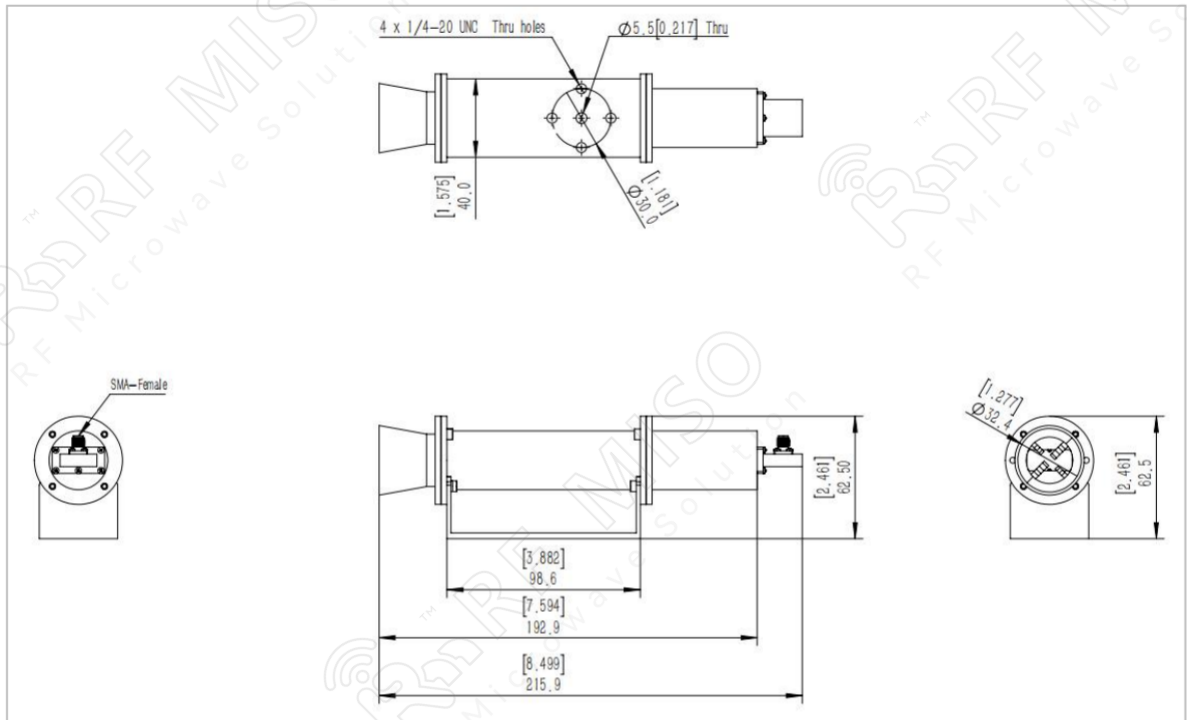


Circularly Polarized Horn Antenna Data Sheet

RM-CPHA818-13

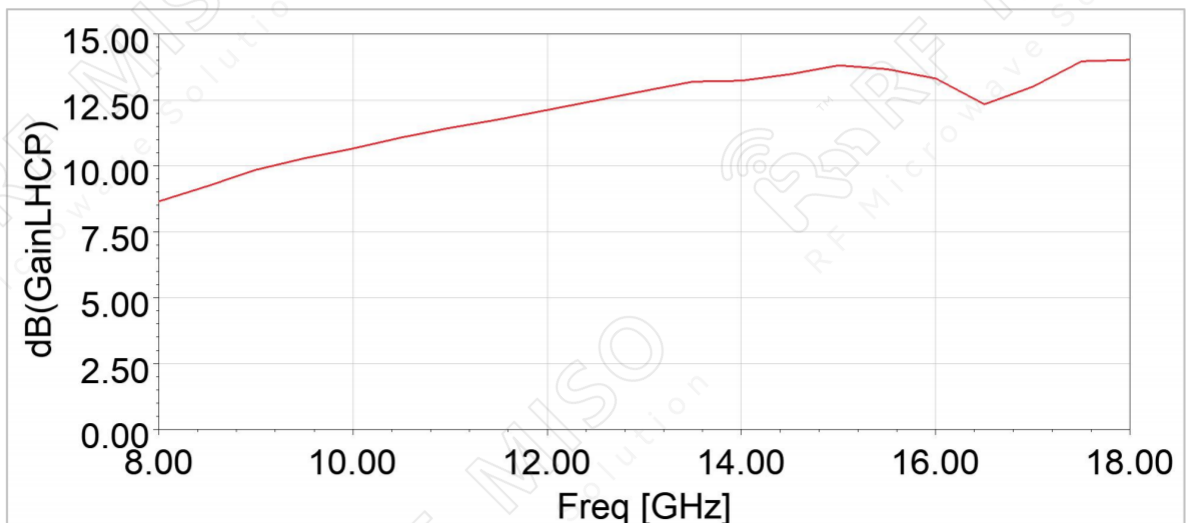
Outline Drawing

N type and 2.92mm type connectors are available, please contact RF Miso.



Simulation Data

Gain

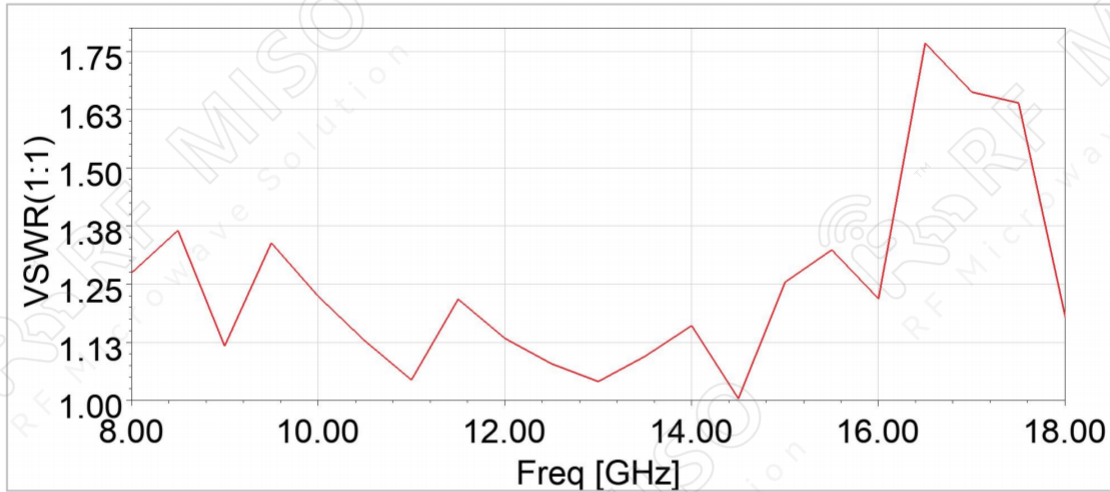


Circularly Polarized Horn Antenna 13dBi Typ. Gain,
8-18 GHz Frequency Range

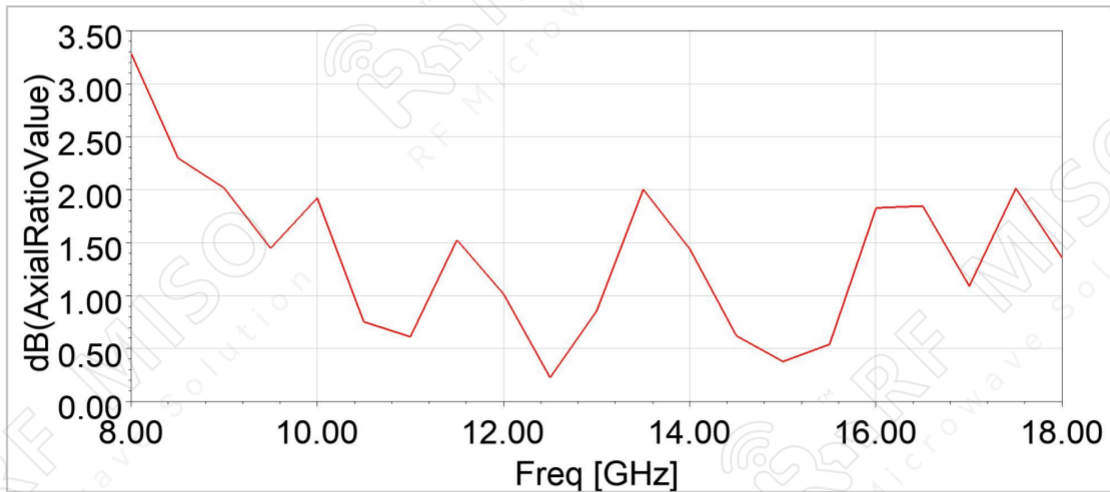


Circularly Polarized Horn Antenna Data Sheet

VSWR



AR

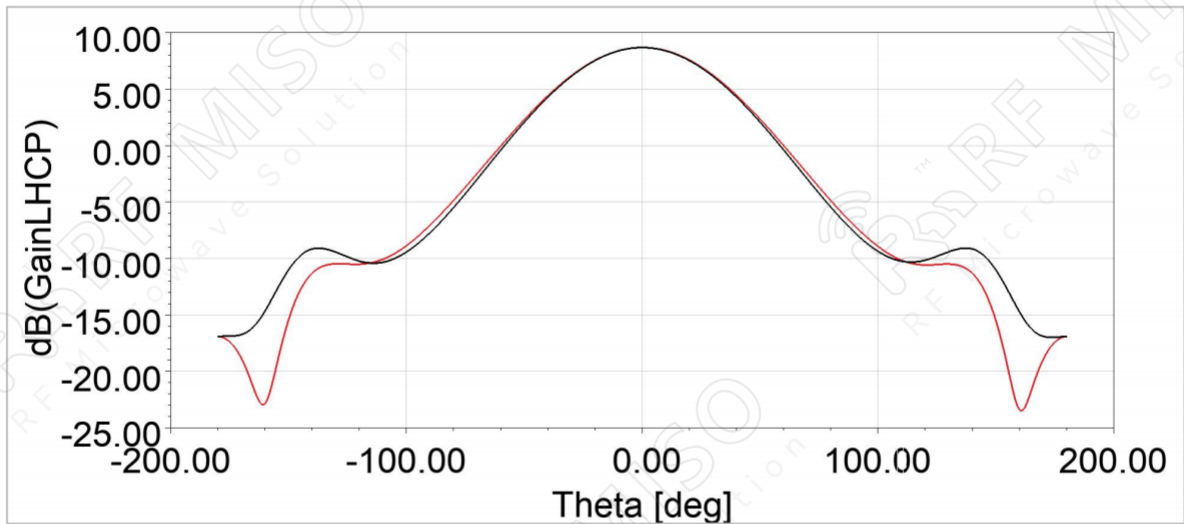




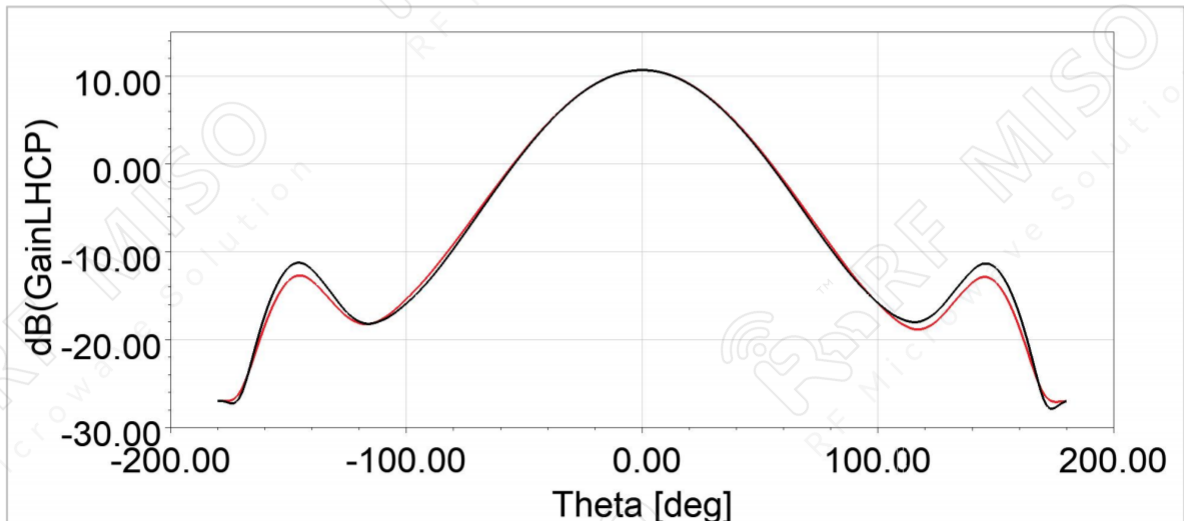
Circularly Polarized Horn Antenna Data Sheet

RM-CPHA818-13

Gain Plot



8GHz



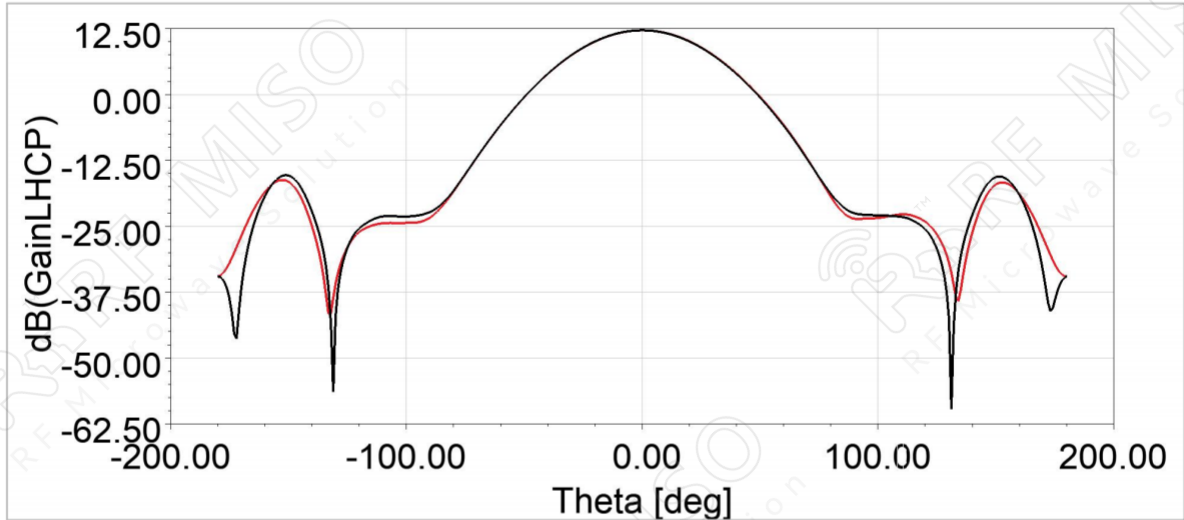
10GHz

Circularly Polarized Horn Antenna 13dBi Typ. Gain,
8-18 GHz Frequency Range

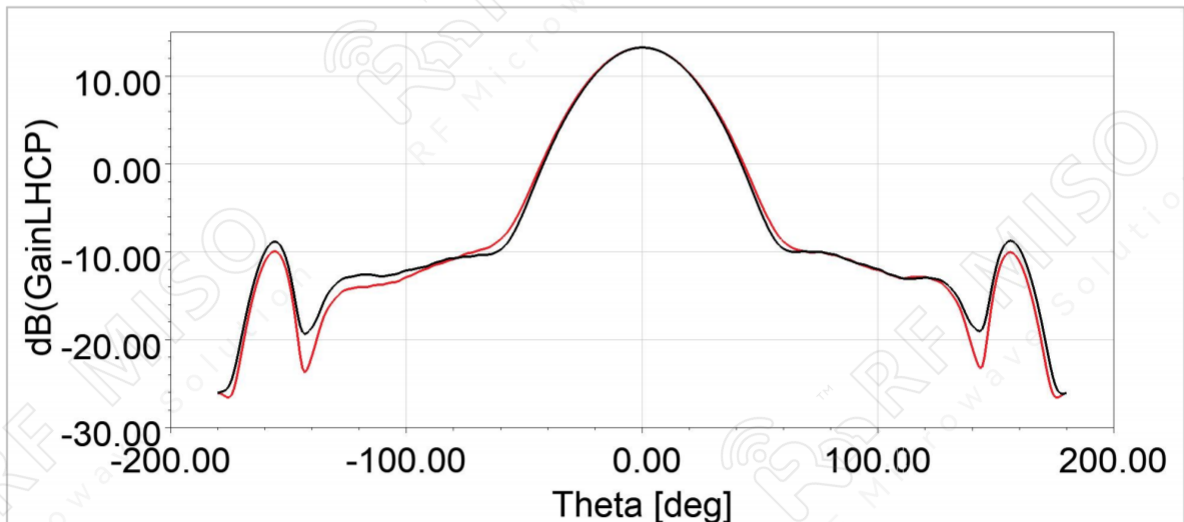


Circularly Polarized Horn Antenna Data Sheet

RM-CPHA818-13



12GHz



14GHz



Circularly Polarized Horn Antenna Data Sheet

