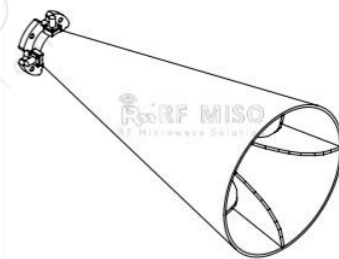


Conical Dual Horn Antenna
15 dBi Typ. Gain, 1.5-20GHz Frequency Range



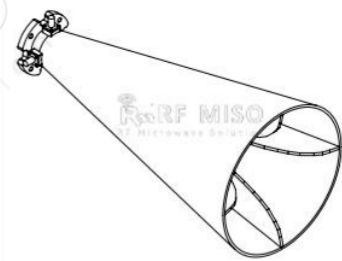
Conical Dual Horn Antenna Data Sheet

RM-CDPHA1520-15

Specifications

RM-CDPHA1520-15		
Item	Specification	Units
Frequency Range	1.5-20	GHz
Gain	15 Typ.	dBi
VSWR	1.5:1	
Cross Polarization	35	dB
3dB Beamwidth	E-Plane:30 Typ, H-Plane:28 Typ.	
Polarization	Dual	
Connector	SMA-Female	
Finishing	Paint	
Material	Al	
Average Power	50	W
Peak Power	100	W
Size(L*W*H)	253*Φ 124.1 (±5)	mm
Weight	0.496	kg

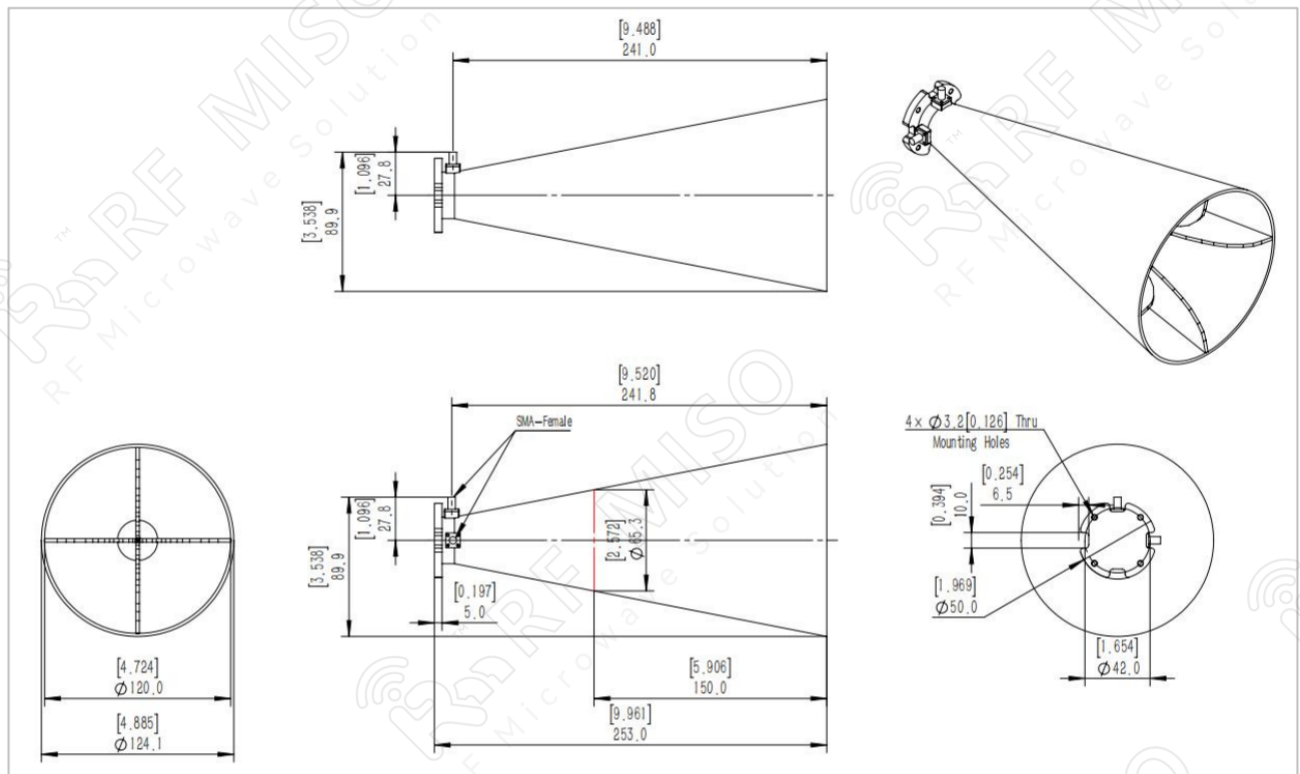
Conical Dual Horn Antenna
15 dBi Typ. Gain, 1.5-20GHz Frequency Range



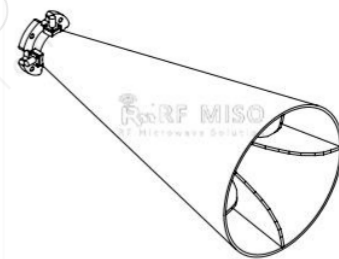
Conical Dual Horn Antenna Data Sheet

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Mechanical Drawing



Conical Dual Horn Antenna
15 dBi Typ. Gain, 1.5-20GHz Frequency Range

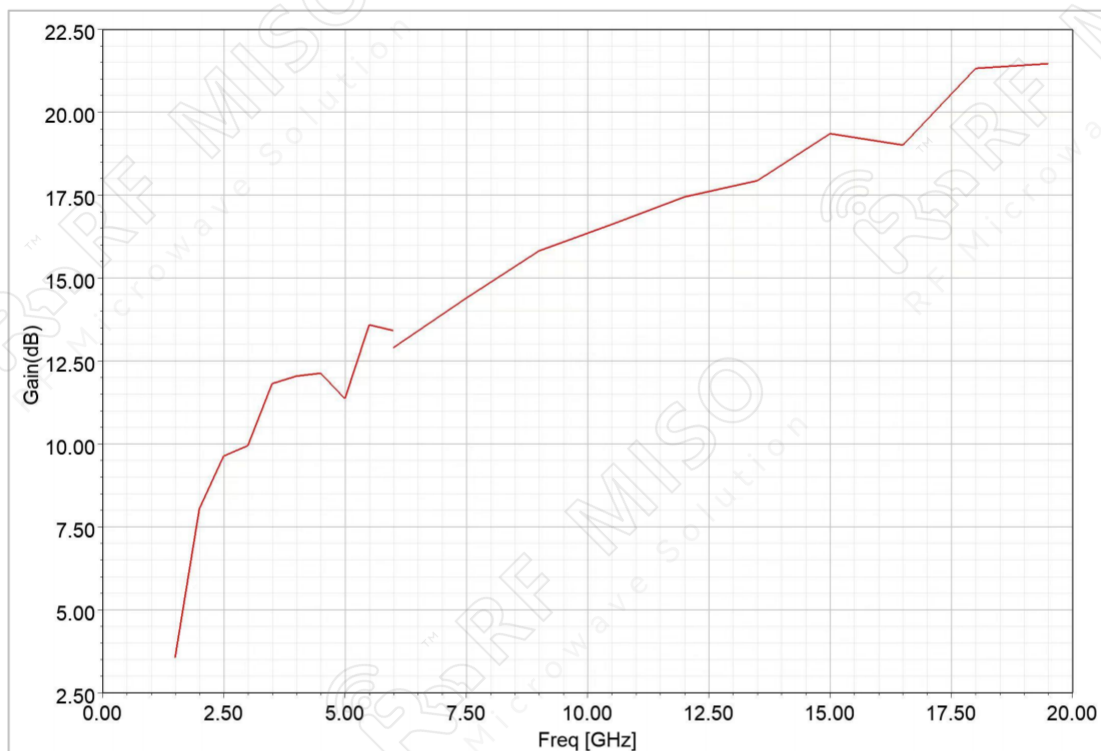


Conical Dual Horn Antenna Data Sheet

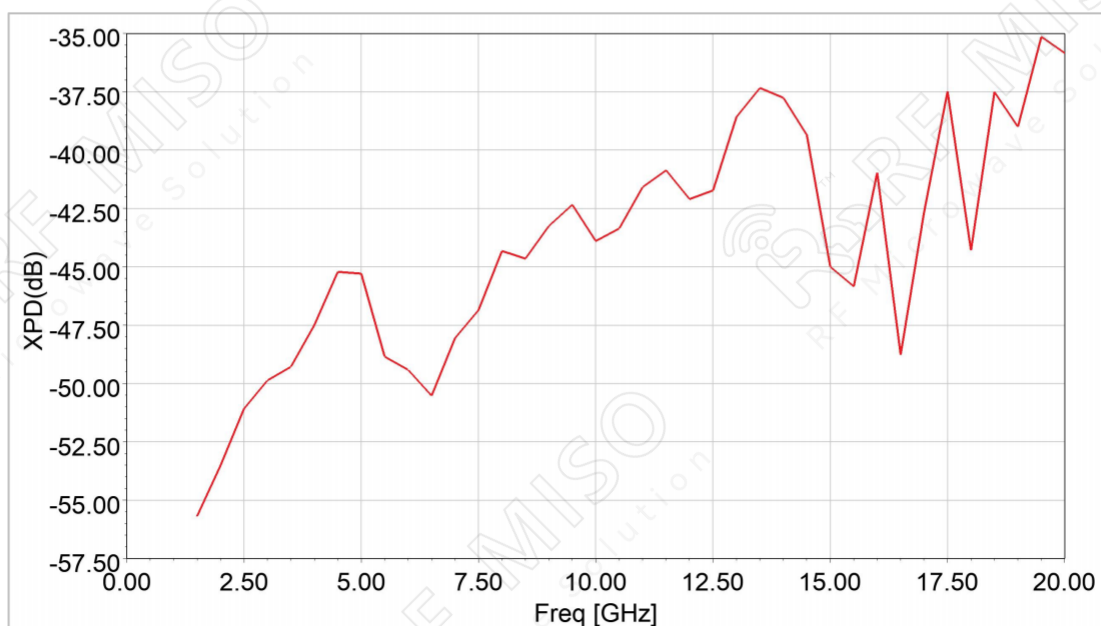
RM-CDPHA1520-15

Simulation Results

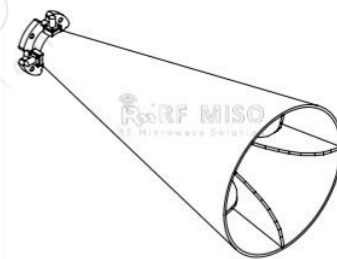
Gain



Cross Polarization



Conical Dual Horn Antenna
15 dBi Typ. Gain, 1.5-20GHz Frequency Range

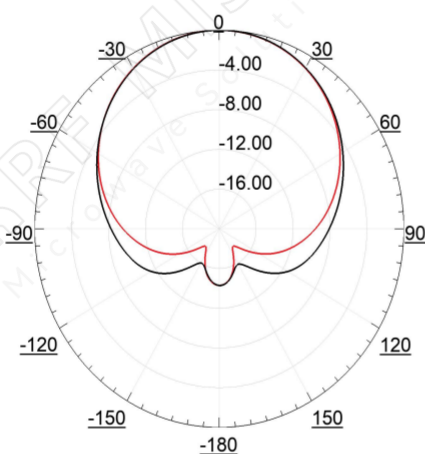


Conical Dual Horn Antenna Data Sheet

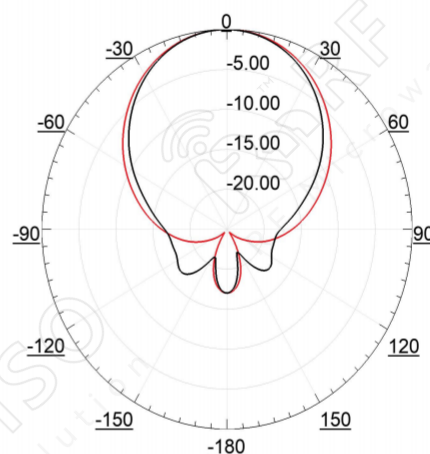
RM-CDPHA1520-15

Gain Pattern

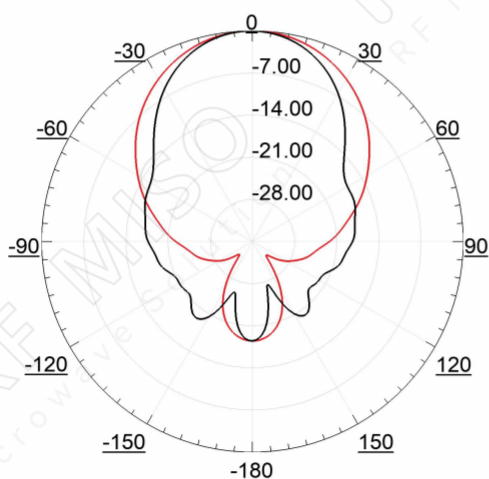
Note: Black line is E-Plane, Red line is H-Plane



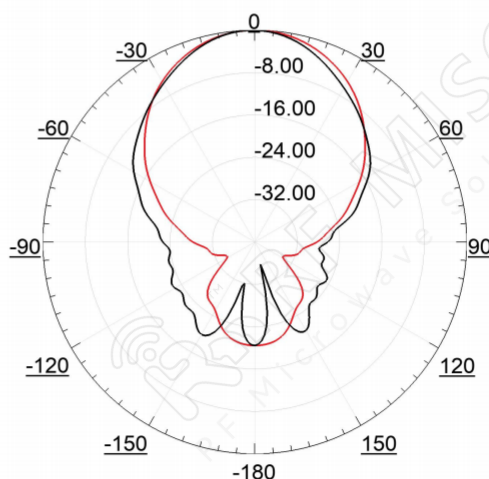
1.5GHz



2.5GHz

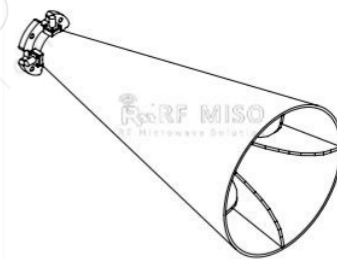


3.5GHz



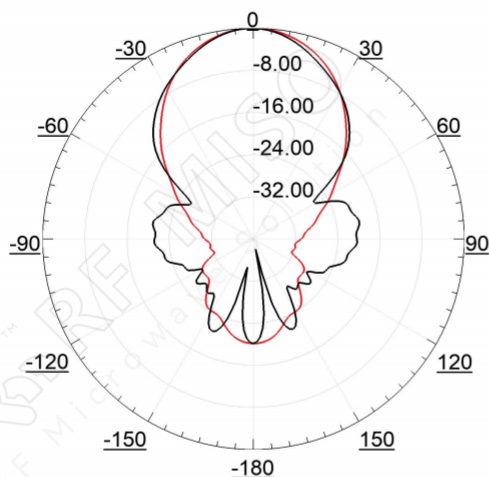
4.5GHz

Conical Dual Horn Antenna
15 dBi Typ. Gain, 1.5-20GHz Frequency Range

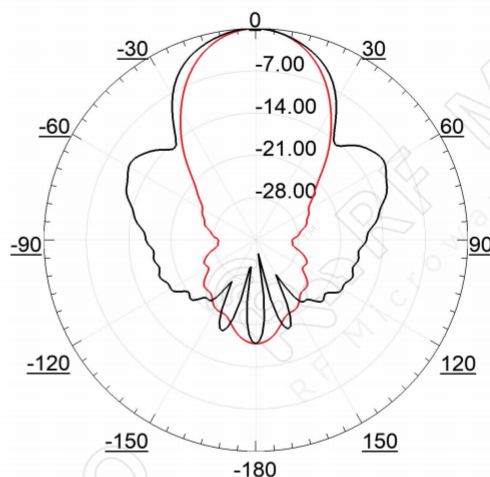


Conical Dual Horn Antenna Data Sheet

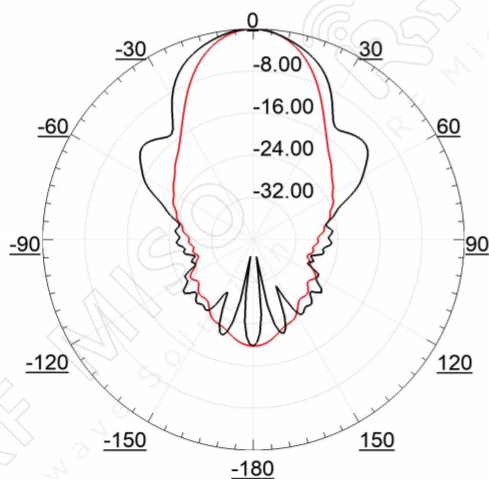
RM-CDPHA1520-15



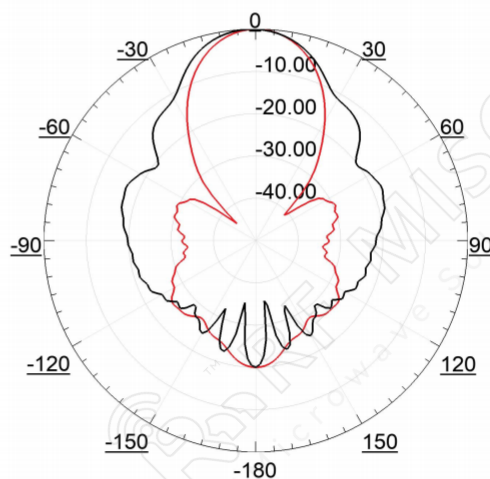
5.5GHz



6.5GHz

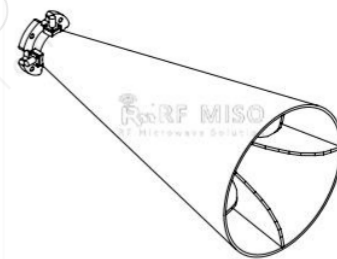


7.5GHz



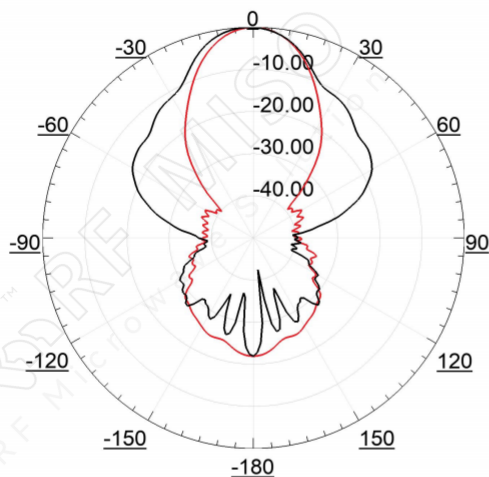
8.5GHz

Conical Dual Horn Antenna
15 dBi Typ. Gain, 1.5-20GHz Frequency Range

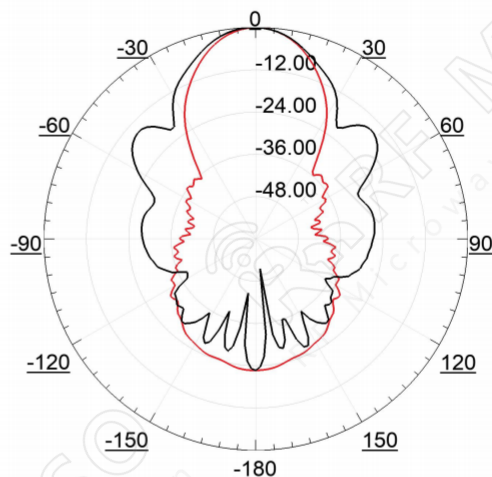


Conical Dual Horn Antenna Data Sheet

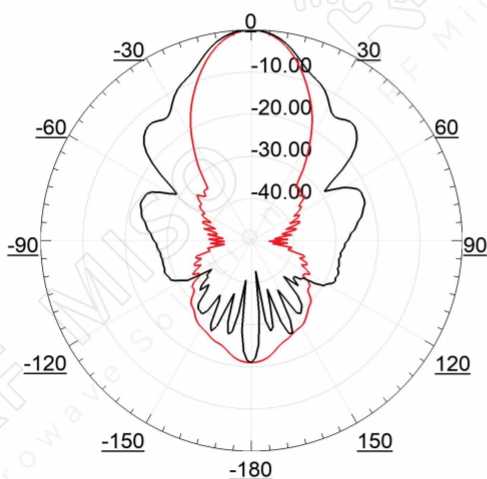
RM-CDPHA1520-15



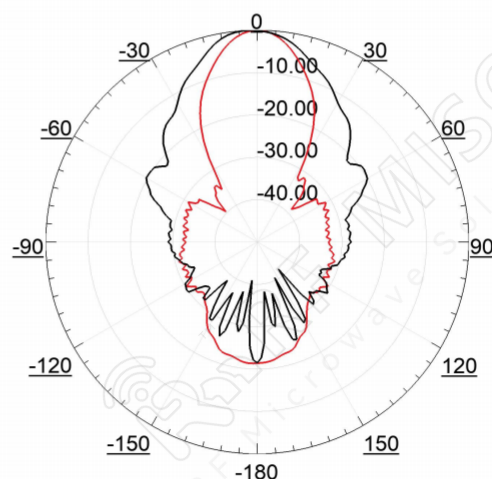
9.5GHz



10.5GHz

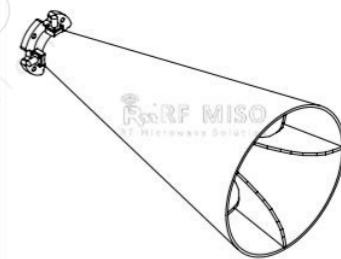


11.5GHz



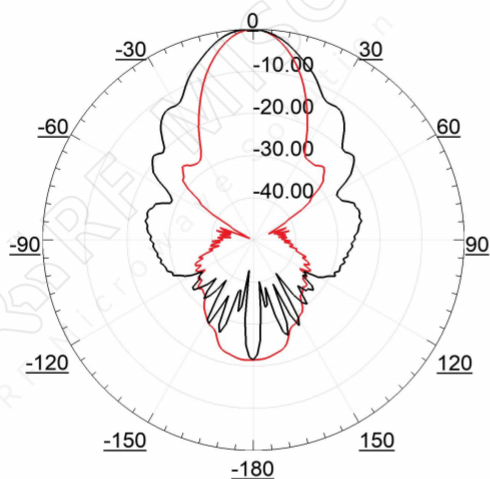
12.5GHz

Conical Dual Horn Antenna
15 dBi Typ. Gain, 1.5-20GHz Frequency Range

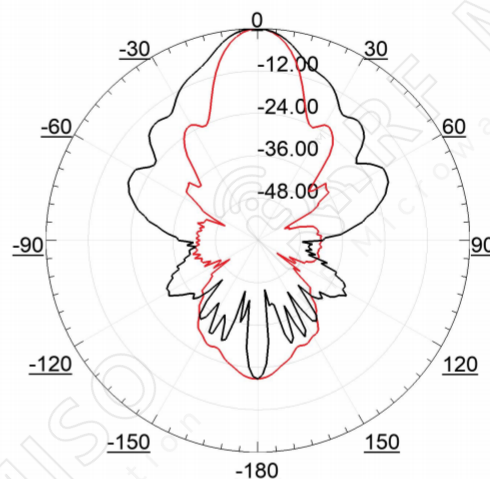


Conical Dual Horn Antenna Data Sheet

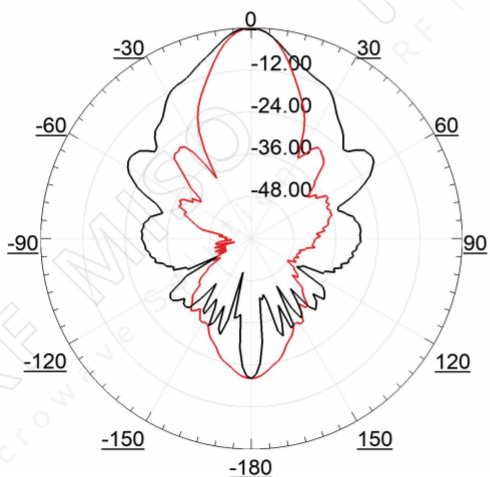
RM-CDPHA1520-15



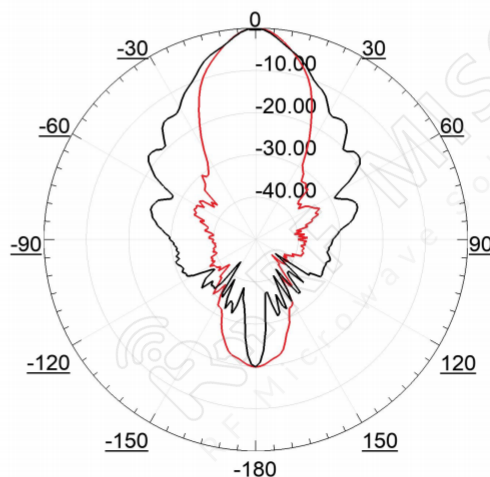
13.5GHz



14.5GHz

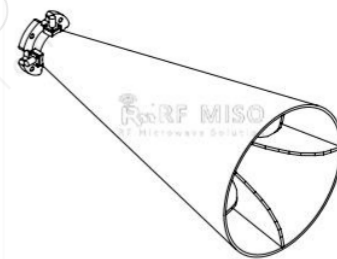


15.5GHz



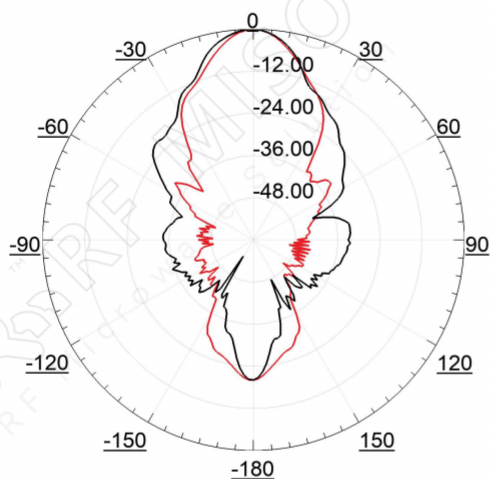
16.5GHz

Conical Dual Horn Antenna
15 dBi Typ. Gain, 1.5-20GHz Frequency Range

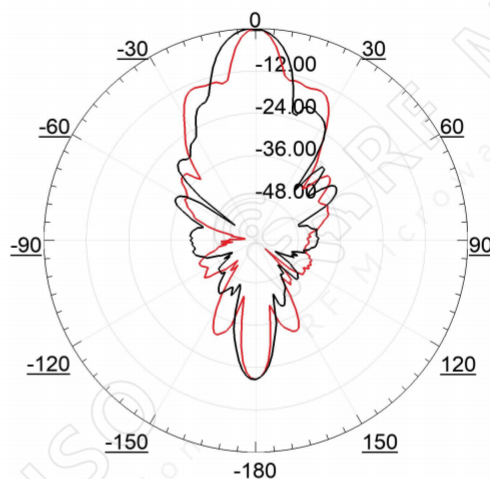


Conical Dual Horn Antenna Data Sheet

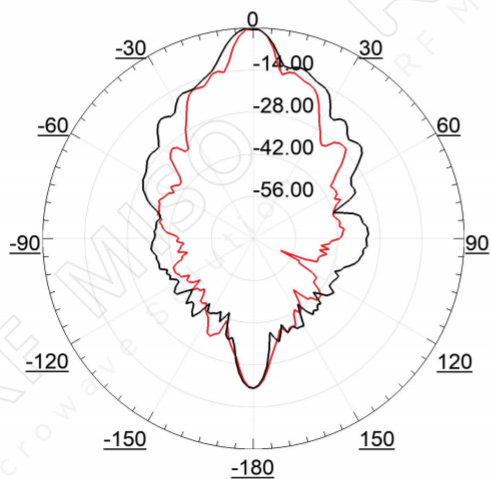
RM-CDPHA1520-15



17.5GHz

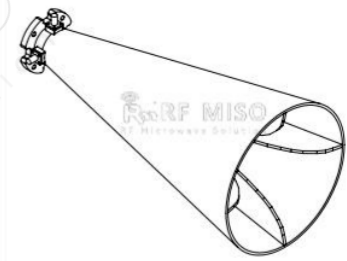


18.5GHz



20GHz

Conical Dual Horn Antenna
15 dBi Typ. Gain, 1.5-20GHz Frequency Range



Conical Dual Horn Antenna Data Sheet

RM-CDPHA1520-15

3dB beamwidth

E-Plane		H-Plane	
Curve Info	3dB(3)	Curve Info	3dB(3)
Freq='1.5GHz' Phi='90deg'	92.7114	Freq='1.5GHz' Phi='0deg'	91.6093
Freq='2GHz' Phi='90deg'	73.0186	Freq='2GHz' Phi='0deg'	76.1172
Freq='2.5GHz' Phi='90deg'	59.0294	Freq='2.5GHz' Phi='0deg'	64.2819
Freq='3GHz' Phi='90deg'	46.7489	Freq='3GHz' Phi='0deg'	57.6731
Freq='3.5GHz' Phi='90deg'	41.5077	Freq='3.5GHz' Phi='0deg'	52.7258
Freq='4GHz' Phi='90deg'	39.2716	Freq='4GHz' Phi='0deg'	49.3762
Freq='4.5GHz' Phi='90deg'	39.1709	Freq='4.5GHz' Phi='0deg'	45.6553
Freq='5GHz' Phi='90deg'	35.4177	Freq='5GHz' Phi='0deg'	42.9988
Freq='5.5GHz' Phi='90deg'	33.6395	Freq='5.5GHz' Phi='0deg'	37.7901
Freq='6GHz' Phi='90deg'	32.9764	Freq='6GHz' Phi='0deg'	35.7795
Freq='6.5GHz' Phi='90deg'	38.8659	Freq='6.5GHz' Phi='0deg'	32.2602
Freq='7GHz' Phi='90deg'	29.1060	Freq='7GHz' Phi='0deg'	29.8547
Freq='7.5GHz' Phi='90deg'	34.2878	Freq='7.5GHz' Phi='0deg'	26.7133
Freq='8GHz' Phi='90deg'	27.5253	Freq='8GHz' Phi='0deg'	26.9258
Freq='8.5GHz' Phi='90deg'	29.5395	Freq='8.5GHz' Phi='0deg'	24.6932
Freq='9GHz' Phi='90deg'	27.8141	Freq='9GHz' Phi='0deg'	22.2432
Freq='9.5GHz' Phi='90deg'	25.7783	Freq='9.5GHz' Phi='0deg'	22.1222
Freq='10GHz' Phi='90deg'	30.1493	Freq='10GHz' Phi='0deg'	22.1739
Freq='10.5GHz' Phi='90deg'	24.4371	Freq='10.5GHz' Phi='0deg'	21.7164
Freq='11GHz' Phi='90deg'	23.4429	Freq='11GHz' Phi='0deg'	19.7492
Freq='11.5GHz' Phi='90deg'	22.5095	Freq='11.5GHz' Phi='0deg'	19.6355
Freq='12GHz' Phi='90deg'	21.6105	Freq='12GHz' Phi='0deg'	18.0806
Freq='12.5GHz' Phi='90deg'	25.1077	Freq='12.5GHz' Phi='0deg'	17.4089
Freq='13GHz' Phi='90deg'	22.8807	Freq='13GHz' Phi='0deg'	17.8734
Freq='13.5GHz' Phi='90deg'	22.4700	Freq='13.5GHz' Phi='0deg'	16.9679
Freq='14GHz' Phi='90deg'	20.1798	Freq='14GHz' Phi='0deg'	15.9078
Freq='14.5GHz' Phi='90deg'	18.6555	Freq='14.5GHz' Phi='0deg'	14.4375
Freq='15GHz' Phi='90deg'	17.2629	Freq='15GHz' Phi='0deg'	13.6239
Freq='15.5GHz' Phi='90deg'	15.2701	Freq='15.5GHz' Phi='0deg'	13.4752
Freq='16GHz' Phi='90deg'	15.5198	Freq='16GHz' Phi='0deg'	13.6906
Freq='16.5GHz' Phi='90deg'	15.8737	Freq='16.5GHz' Phi='0deg'	16.7870
Freq='17GHz' Phi='90deg'	21.3579	Freq='17GHz' Phi='0deg'	20.4145
Freq='17.5GHz' Phi='90deg'	19.0247	Freq='17.5GHz' Phi='0deg'	15.8361
Freq='18GHz' Phi='90deg'	16.6339	Freq='18GHz' Phi='0deg'	11.4558
Freq='18.5GHz' Phi='90deg'	14.7251	Freq='18.5GHz' Phi='0deg'	9.2148
Freq='19GHz' Phi='90deg'	13.8976	Freq='19GHz' Phi='0deg'	8.6879
Freq='19.5GHz' Phi='90deg'	11.3284	Freq='19.5GHz' Phi='0deg'	8.7886
Freq='20GHz' Phi='90deg'	10.5983	Freq='20GHz' Phi='0deg'	8.3997