

Standard Gain Horn Antenna
20 dBi Typ. Gain, 140-220GHz Frequency Range

Standard Gain Horn Antenna Data

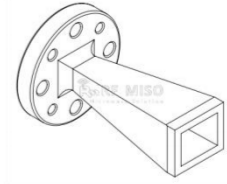
RM-SGHA5-20

Description

RF MISO's **Model RM-SGHA5-20** is a linear polarized standard gain horn antenna that operates from 140 to 220 GHz. The antenna offers a typical gain of 20 dBi and low VSWR <1.2, This antenna has flange input and coaxial input for customers to rotate.

Specifications

| RM-SGHA5-20 | | | |
|--------------------|-------------------|-------------------|-------|
| Item | Specification | | Units |
| Frequency Range | 140-220 | | GHz |
| Wave-guide | WR5 | | |
| Gain | 20 Typ. | | dBi |
| VSWR | <1.2 | | |
| Polarization | Linear | | |
| Cross Polarization | 65 Typ. | | dB |
| 3dB Beamwidth | E-Plane:11.7~18.4 | H-Plane:12.2~18.5 | deg |
| Material | Brass | | |
| Size | Ø19.05*30.33(±5) | | mm |
| Weight | 0.015 | | kg |

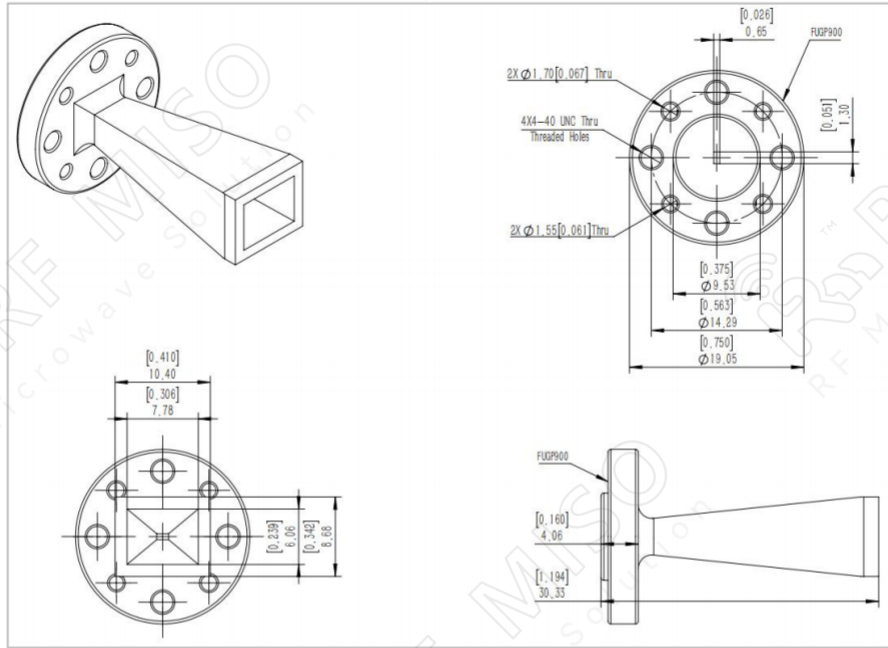


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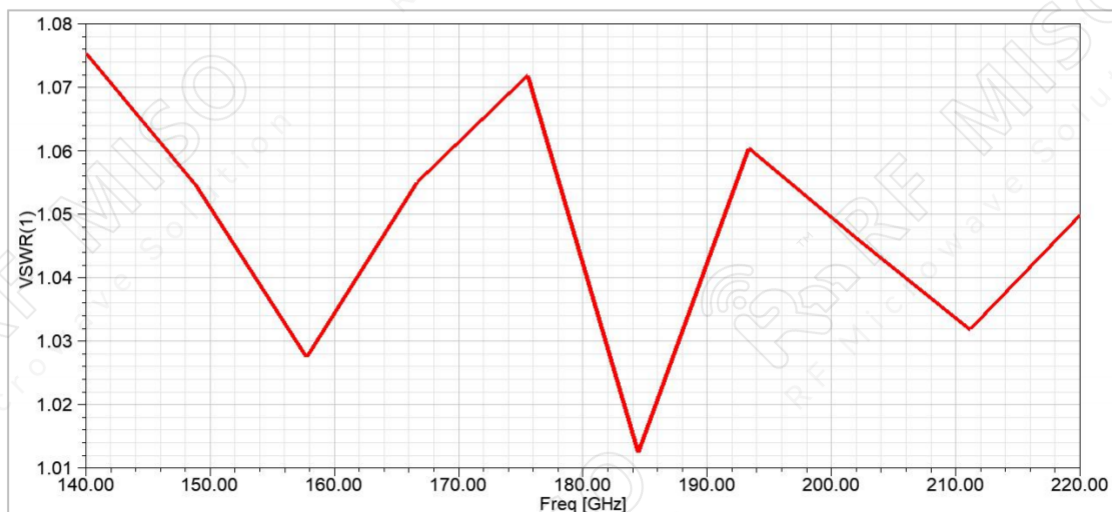
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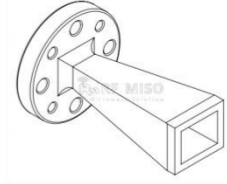
Outline Drawing



Simulated Data

VSWR



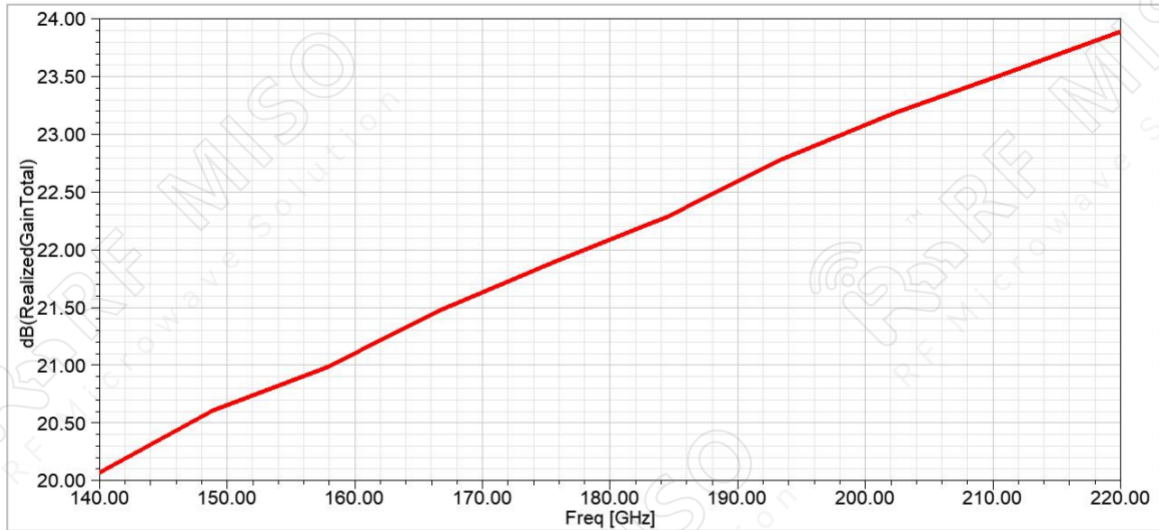


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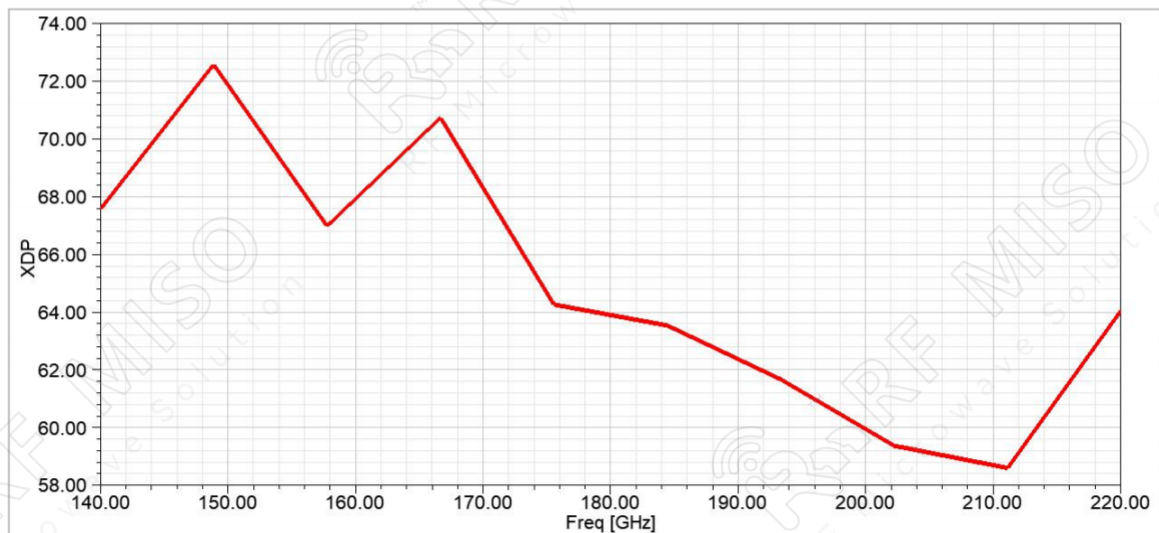
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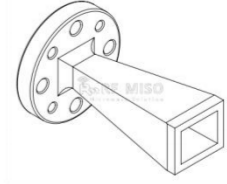
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Gain



Cross Polarization





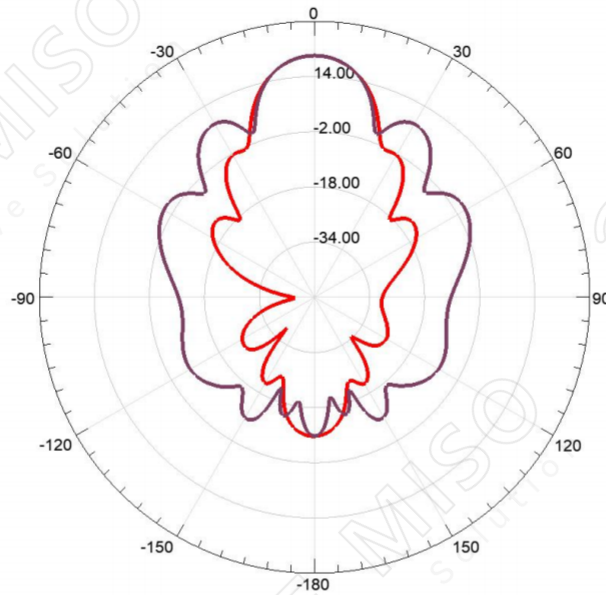
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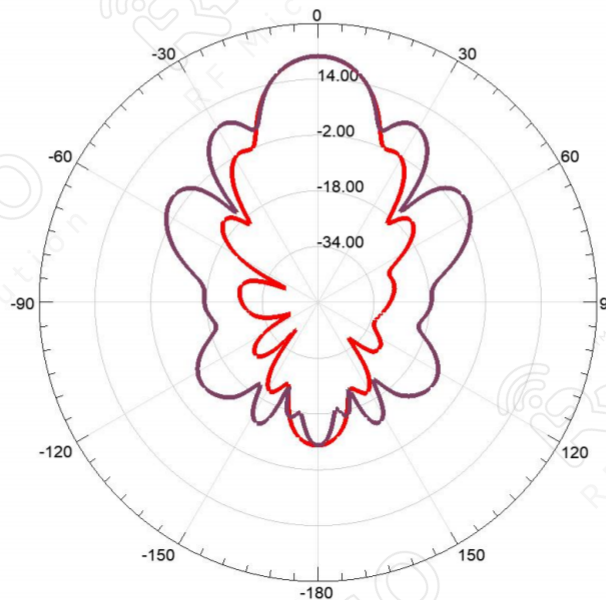
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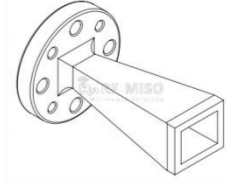
Gain Pattern

3dB Beamwidth@140GHz: E-Plane 18.42, H-plane 18.49.



3dB Beamwidth@148.88GHz: E-Plane 17.73, H-plane 17.38.



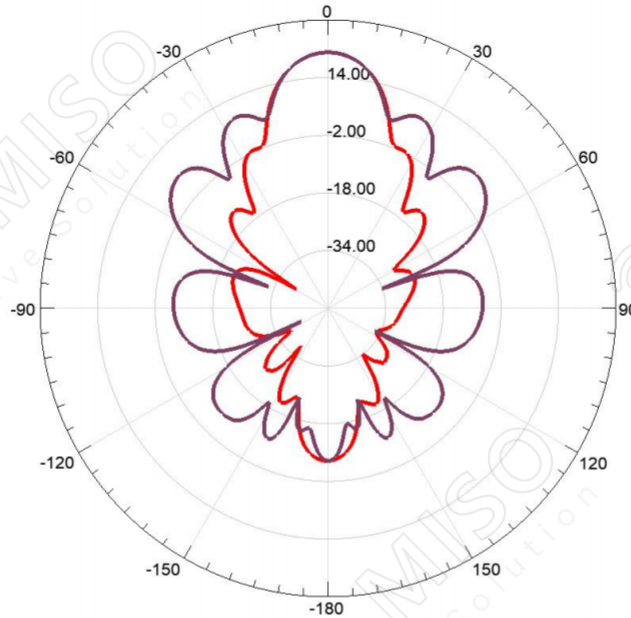


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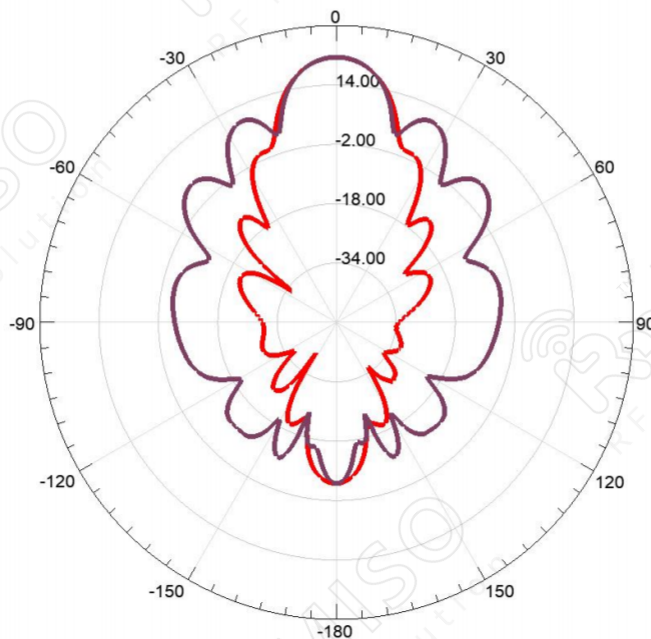
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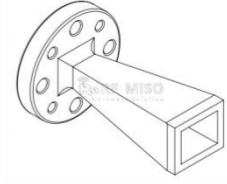
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3dB Beamwidth@157.78GHz: E-Plane 16.54, H-plane 16.54.



3dB Beamwidth@166.67GHz: E-Plane 15.77, H-plane 15.77.



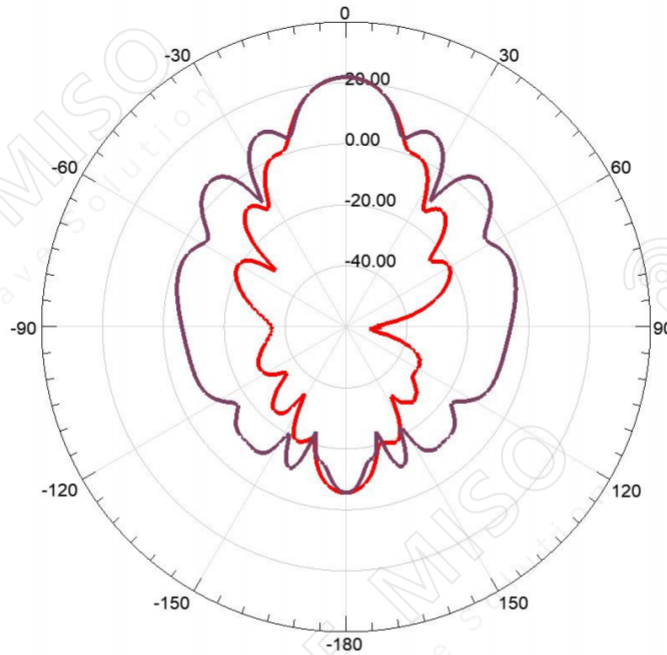


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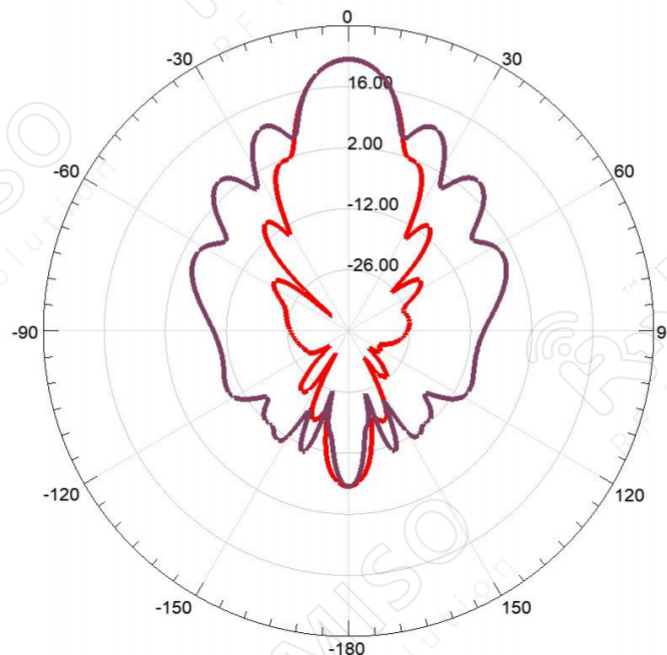
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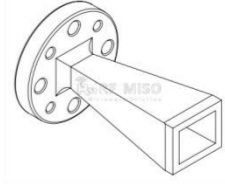
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3dB Beamwidth@175.56GHz: E-Plane 15.00, H-plane 15.00.



3dB Beamwidth@184.44GHz: E-Plane 14.48, H-plane 14.23.



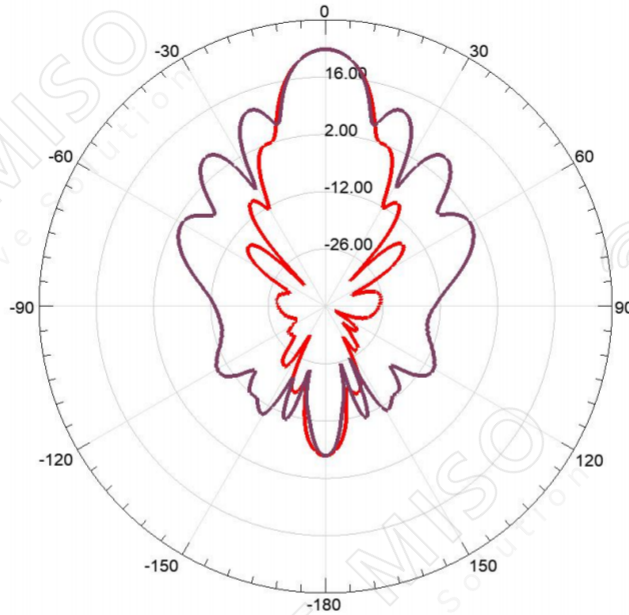


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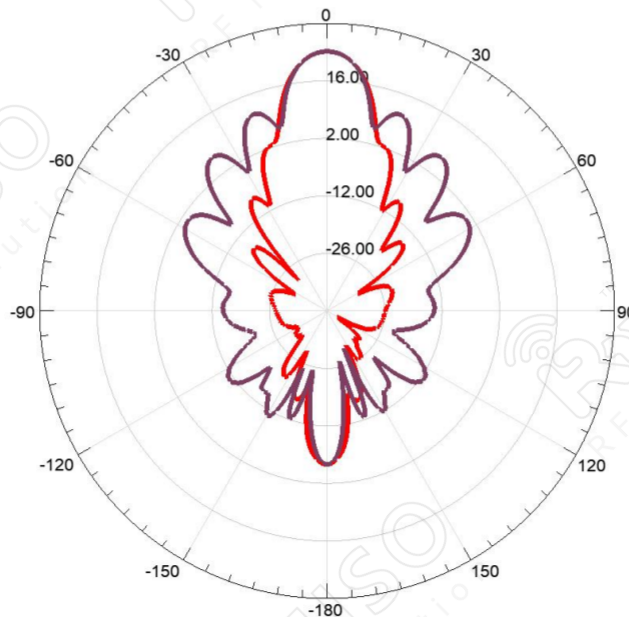
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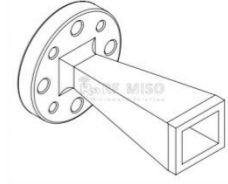
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3dB Beamwidth@193.33GHz: E-Plane 13.47, H-plane 13.64.



3dB Beamwidth@202.22GHz: E-Plane 12.97, H-plane 13.17.



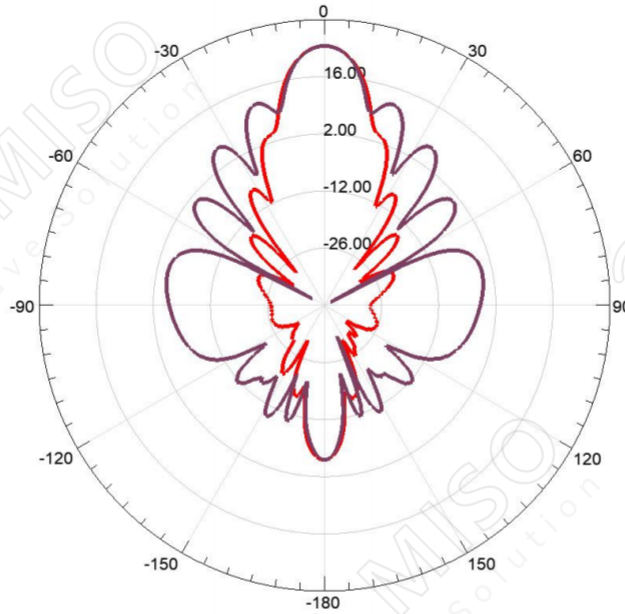


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3dB Beamwidth@211.11GHz: E-Plane 12.27, H-plane 12.64.



3dB Beamwidth@220GHz: E-Plane 11.75, H-plane 12.21

