

DO13X20702P

Spot Beam 20/70 Antenna

698-960 / 1695-2700 MHz , 12 / 13 dBi, H20°, V70°

DO13X20702P 4310 : 4.3-10 Female x 2

High Capacity Venue Multiband Antenna

Frequency Range

| 698-750 | 750-820 | 820-960 | 1695-1910 | 1910-2180 | 2180-2700 |
|---------|---------|---------|-----------|-----------|-----------|
| 23° | 21° | 18° | 21° | 18° | 15° |

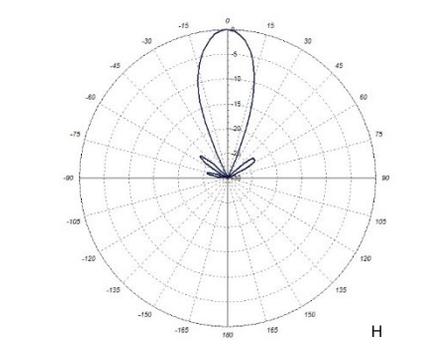
HPBW

| Model No. | DO13X20702P | | | | | |
|--|-------------|------------|------------|---------------------------|------------|------------|
| Frequency Range (MHz) | 698-750 | 750-820 | 820-960 | 1695-1910 | 1910-2180 | 2180-2700 |
| Gain (dBi) | 12.9 ± 0.3 | 12.6 ± 0.4 | 13.0 ± 0.4 | 11.7 ± 0.3 | 12.9 ± 0.8 | 13.7 ± 0.3 |
| Horizontal Pattern: | | | | | | |
| Azimuth Beam width (°) | 23.0 ± 1.9 | 21.9 ± 0.6 | 18.7 ± 1.4 | 21.5 ± 1.9 | 18.5 ± 1.2 | 15.8 ± 1.5 |
| First Upper Side Lobe Suppression (dB) | > 18.7 | > 18.7 | > 16.7 | > 19.0 | > 24.3 | > 20.4 |
| Vertical Pattern: | | | | | | |
| Elevation Beam width (°) | 76.8 ± 3.1 | 71.9 ± 3.2 | 71.5 ± 4.0 | 72.9 ± 4.3 | 63.9 ± 4.6 | 59.9 ± 3.4 |
| Front-to-Back Ratio (dB) | > 24.1 | > 24.4 | > 21.9 | > 21.7 | > 27.4 | > 28.1 |
| Cross Polar Discrimination at Boresight (dB) | > 21.9 | > 18.5 | > 20.9 | > 21.1 | > 23.0 | > 19.9 |
| Cross Polar Discrimination over Sector (± 6 0°) (dB) | > 13.4 | > 10.3 | > 6.8 | > 9.1 | > 13.7 | > 7.9 |
| Isolation (dB) | | 25 | | | 25 | |
| VSWR | | < 1.6:1 | | | < 1.6:1 | |
| Polarization | | | | + 45°, - 45° | | |
| Intermodulation IM3 (dBc) | | | | < -153 (2x43 dBm carrier) | | |
| Impedance (Ω) | | | | 50 | | |
| Max. Effective Power per Port (watts) | | | | 200 | | |

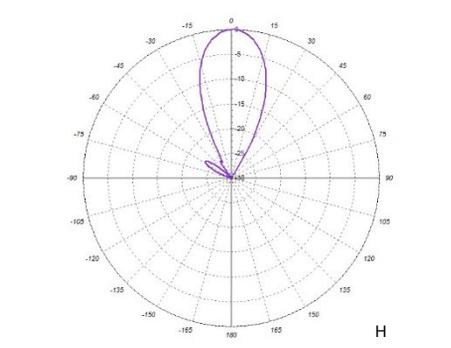
Values based on NGMN-P-BASTA requirements

Mechanical Specifications

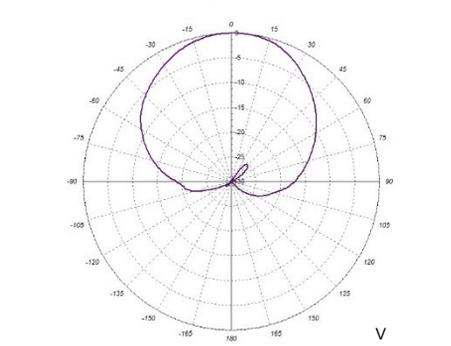
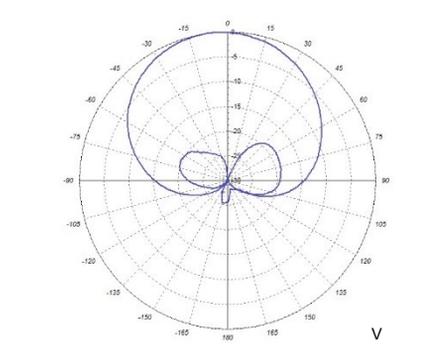
| | |
|---------------------------------------|--|
| Connector Type & Quantity | 7-16 Female x 2 (Optional : 4.3-10 Female x 2) |
| Connector Position | Backside |
| Antenna Dimension (H x W x D) (mm/in) | 300 x 1100 x 130 11.8 x 43.3 x 5.1 |
| Weight (Clamp incl.) (kg/lb) | 12 25.4 |
| Wind Load (@100 mph) (N) | Front 470, Side 204, Rear 470 |
| Max. Wind Speed (mph) | 150 |
| Radome (Color) | FRP (Gray) |
| Product Environmental compliance | ROHS compliant |



Low Band



High Band



Mechanical Drawing & Configuration Table



| | |
|------------------------------------|------------------------------------|
| 698-960 / 1695-2700 +45 | 698-960 / 1695-2700 -45 |
| ● | ● |
| 7-16 Female Or 4.3-10 Female | 7-16 Female Or 4.3-10 Female |

