



23 GHz (21.2 - 23.6) HIGH-PERFORMANCE MICROWAVE ANTENNAS

FEATURES

- **Antenna diameters**
 - 1' (30 cm)
 - 1.5' (45 cm)
 - 2' (60 cm)
 - 3' (90 cm)
 - 4' (120 cm)
- **Antenna weights**
 - 1' 17 lbs. (7.7 kg)
 - 1.5' 19 lbs. (8.6 kg)
 - 2' 27 lbs. (12.2 kg)
 - 3' 50 lbs. (22.5 kg)
 - 4' 85 lbs. (38.3 kg)
- **HP models:** high-performance, plane polarized
- **HPD models:** dual polarized
- **IEC or EIA flanges available**
- **Direct mounting** for RF units available
- **Ease of installation:** antennas shipped completely assembled, minimal mount required
- **Planar radomes** standard with high-performance model
- **Rugged and lightweight** cast aluminum mount with fine adjustment for both azimuth and elevation
- **Compact size**, due to Radio Waves innovative feed design
- **Standard white;** other colors and/or logos available on request
- **Corrosive resistant:** coated aluminum, hot dipped galvanized steel and stainless steel
- **Three year warranty**



21.2 - 23.6 GHz ELECTRICAL SPECIFICATIONS (typical performance)*

| Model Number | Diameter ft (cm) | Gain, dBi | | | Beamwidth Degrees, 3dB | X Pol. Disc., dB | F/B Ratio, dB | VSWR Max. (R.L., dB) |
|------------------------|------------------|-----------|------|------|------------------------|------------------|---------------|----------------------|
| | | Low | Mid | High | | | | |
| Plane Polarized | | | | | | | | |
| HPLP1-23 | 1 (30) | 34.7 | 35.1 | 35.5 | 2.7 | 30 | 62 | 1.4:1 (15.5) |
| HPLP1.5-23 | 1.5 (45) | 36.8 | 37.2 | 37.8 | 2.1 | 30 | 64 | 1.4:1 (15.5) |
| HP2-23 | 2 (60) | 39.7 | 40.2 | 40.7 | 1.7 | 30 | 68 | 1.4:1 (15.5) |
| HP3-23 | 3 (90) | 43.2 | 43.7 | 44.2 | 1.1 | 30 | 71 | 1.4:1 (15.5) |
| HP4-23 | 4 (120) | 45.7 | 46.2 | 46.6 | 0.8 | 30 | 72 | 1.4:1 (15.5) |
| Dual Polarized | | | | | | | | |
| HPLPD1-23 | 1 (30) | 34.5 | 34.9 | 35.3 | 2.7 | 30 | 62 | 1.4:1 (15.5) |
| HPLPD1.5-23 | 1.5 (45) | 36.6 | 37.0 | 37.6 | 2.1 | 30 | 64 | 1.4:1 (15.5) |
| HPD2-23 | 2 (60) | 39.5 | 40.0 | 40.5 | 1.7 | 30 | 68 | 1.4:1 (15.5) |
| HPD3-23 | 3 (90) | 43.0 | 43.5 | 44.0 | 1.1 | 30 | 71 | 1.4:1 (15.5) |
| HPD4-23 | 4 (120) | 45.5 | 46.0 | 46.4 | 0.8 | 30 | 72 | 1.4:1 (15.5) |

* All specifications subject to change without notice.
For regulatory compliances, contact Radio Waves.