



Dielectric's TLP-BB Series antenna is designed specifically for multichannel operation with low wind load. Available in 8 and 12 bay configurations.

Dielectric Advantages

- Operating Range: 60 MHz band within 470-860 MHz
- Economical broadband design
- Suitable for multiplexing many channels
- DTV ERPs up to 100 kW
- 13 Standard azimuth patterns available
- Stable elevation pattern with 2 degrees nominal beam tilt
- Available horizontally, elliptically or circularly polarized
- Low VSWR, < 1:2 over operating band. Channel selection and addition of VPOL can affect VSWR spec.
- Slot covers standard, radomes optional
- Standard mounting brackets available for 1 1/4" to 4 1/2" OD pipes. Custom mounting options also available.
- 3 1/8" EIA input standard
- Survives winds up to 125 mph (56 m/s)

Antenna Specifications

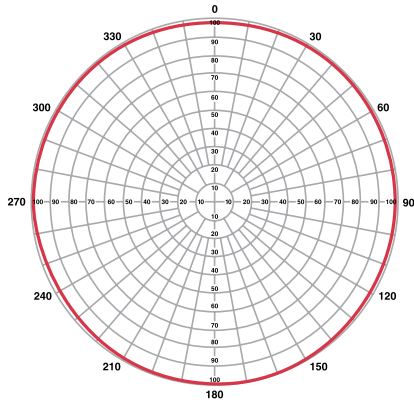
Band	Polarization	VSWR	Input	Power Rating	Beam Tilt
UHF (470-860 MHz)	Horizontal or Elliptical	1:2 Channel selection & addition of VPOL can affect VSWR spec	3 1/8" 50 Ω EIA	5 kW max. average 8 bay 5 kW max. average 12 bay	2.0° nominal

The tables reflect minimum values for 860 MHz and maximum for 470 MHz. For other frequencies the height (H), weight (W) and windload (WL) can be interpolated using formula: H, W, or WL at $f = \text{MAX} - (f - 860) * (\text{MIN} - \text{MAX}) / 390$

Center of radiation is one half of the height: $C/R = 0.5 * H$

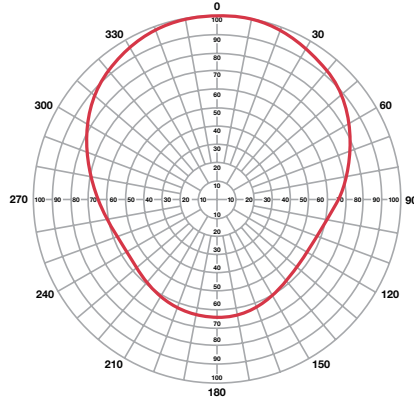
- For elliptical polarization contact factory
- For mechanical specs. contact factory

TLP-BB-A



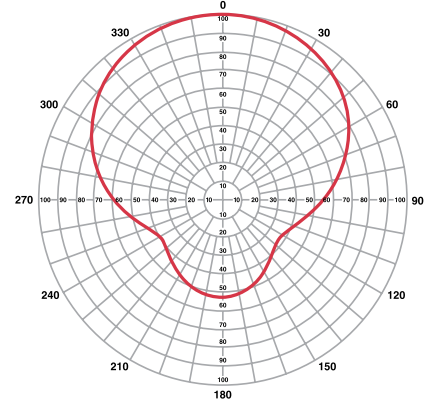
AZIMUTH GAIN: 1.0

TLP-BB-B



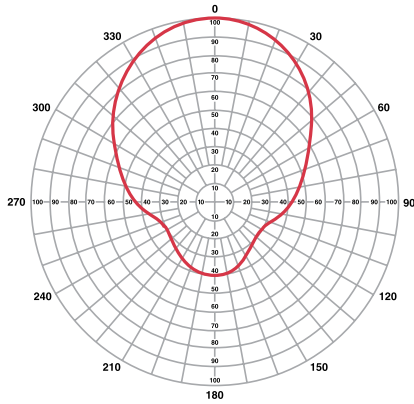
AZIMUTH GAIN: 1.7

TLP-BB-C



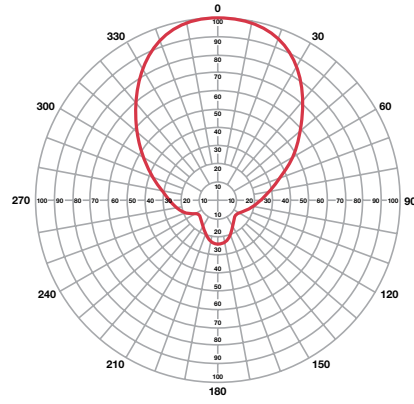
AZIMUTH GAIN: 2.1

TLP-BB-D



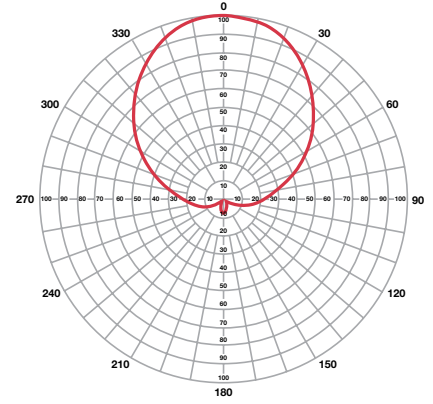
AZIMUTH GAIN: 2.9

TLP-BB-E



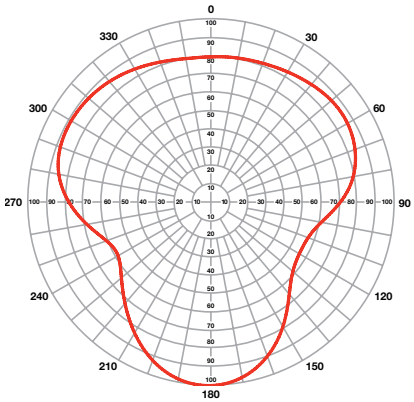
AZIMUTH GAIN: 3.9

TLP-BB-F



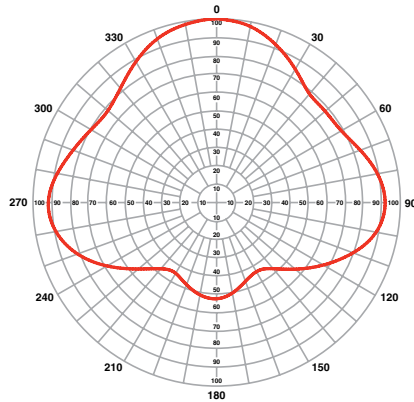
AZIMUTH GAIN: 3.6

TLP-BB-G



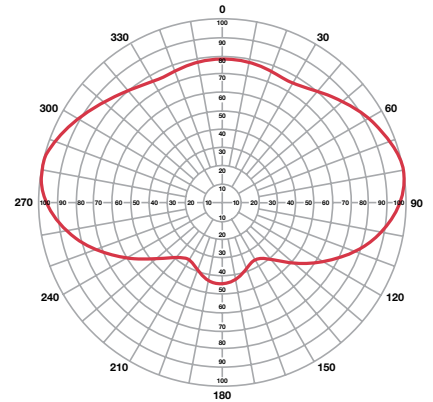
AZIMUTH GAIN: 1.6

TLP-BB-H



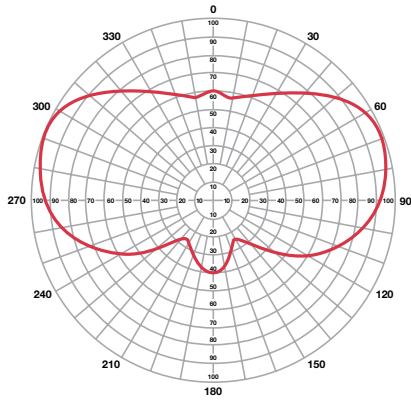
AZIMUTH GAIN: 1.7

TLP-BB-I



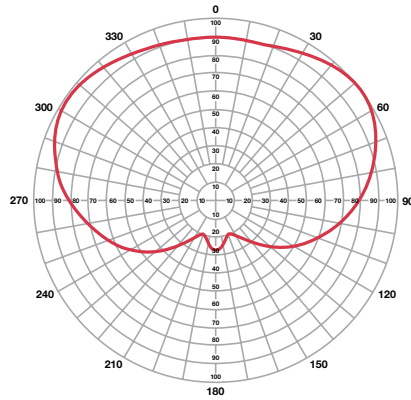
AZIMUTH GAIN: 1.8

TLP-BB-J



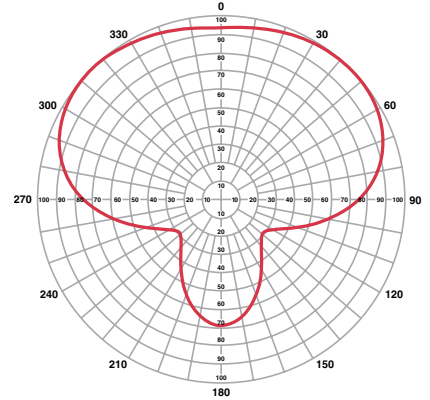
AZIMUTH GAIN: 2.0

TLP-BB-M



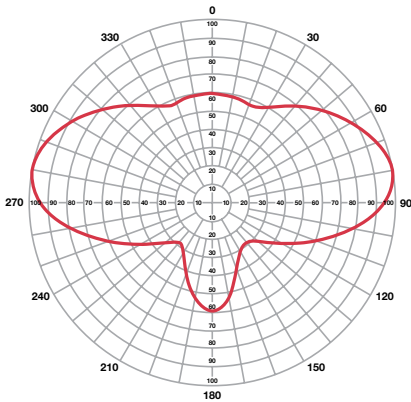
AZIMUTH GAIN: 1.9

TLP-BB-L



AZIMUTH GAIN: 1.7

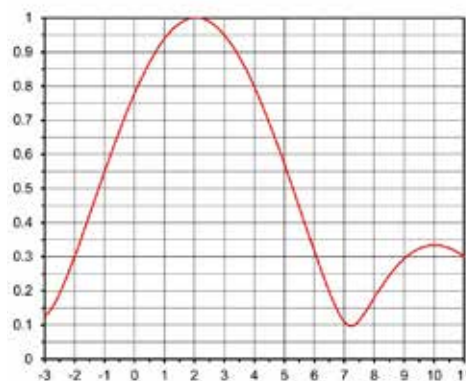
TLP-BB-O



AZIMUTH GAIN: 2.2

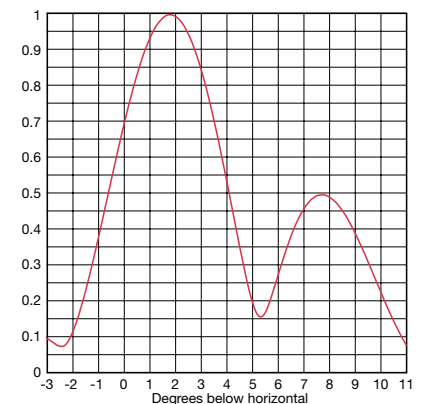
Custom beam tilts available to meet your specific requirements. Please contact Dielectric for more information.

TLP-BB-8



RMS GAIN: 7.6 (8.81 dB)

TLP-BB-12



RMS GAIN: 10.0 (9.98 dB)