



Dielectric’s TLP-BB Series antenna is designed specifically for multichannel operation with low wind load.

**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 gain of 12 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	8 kW max. average	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 = MAX – (f-860) \* (MIN-MAX)/390

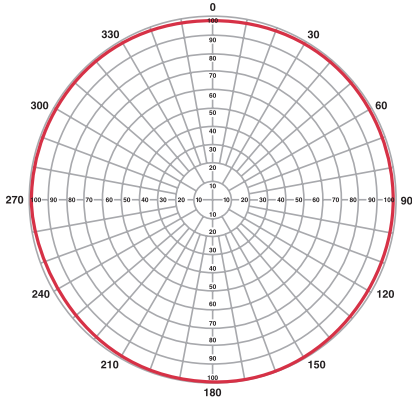
Center of radiation is one half of the height: C/R = 0.5 \* H

- For elliptical polarization contact factory

Antenna Type	Azimuth Pattern	Peak Power Gain Ratio	Gain (dBd)	Height ft (m)	Weight lb (kg)	Wind Area <sup>1</sup> ft <sup>2</sup> (m <sup>2</sup> )
TLP-12-BB-B	TLP-B	Channel specific. Please contact factory.				
TLP-12-BB-M	TLP-M	Channel specific. Please contact factory.				

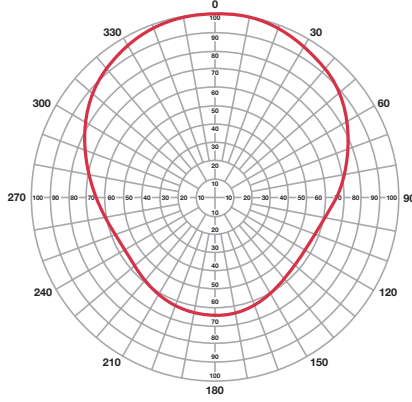
<sup>1</sup> Wind area TIA/EIA 222-G

TLP-BB-A



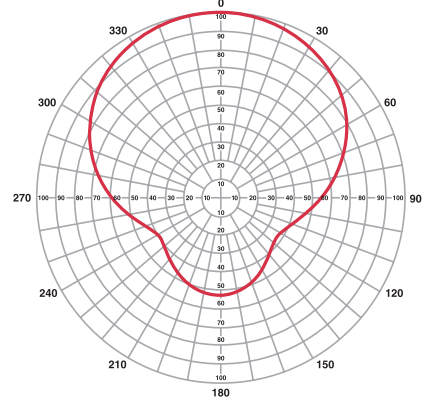
AZIMUTH GAIN: 1.0

TLP-BB-B



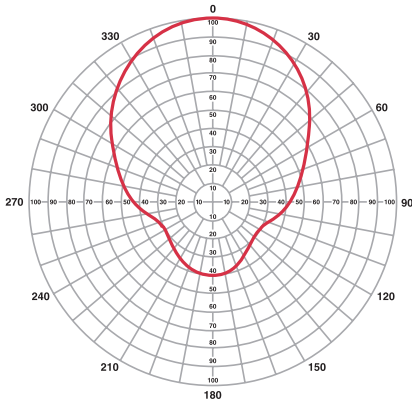
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TLP-BB-C



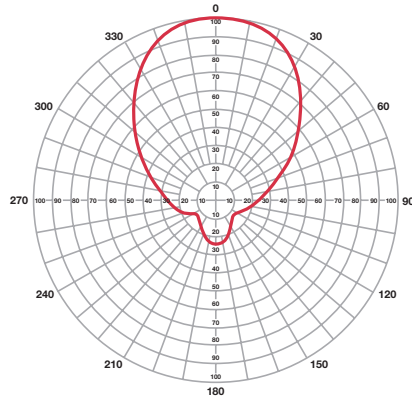
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TLP-BB-D



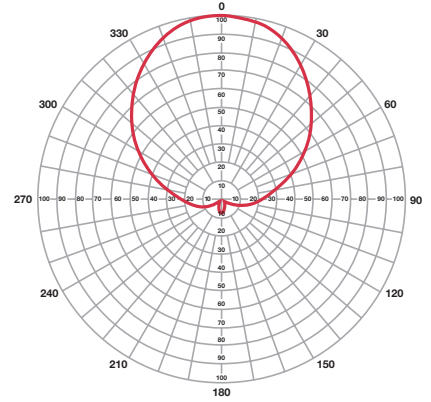
AZIMUTH GAIN: 2.9

TLP-BB-E



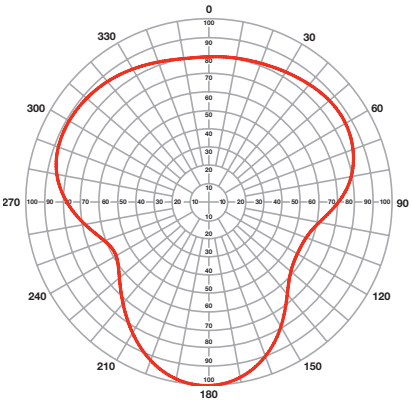
AZIMUTH GAIN: 3.9

TLP-BB-F



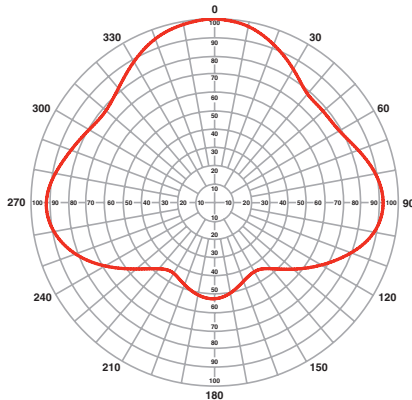
AZIMUTH GAIN: 3.6

TLP-BB-G



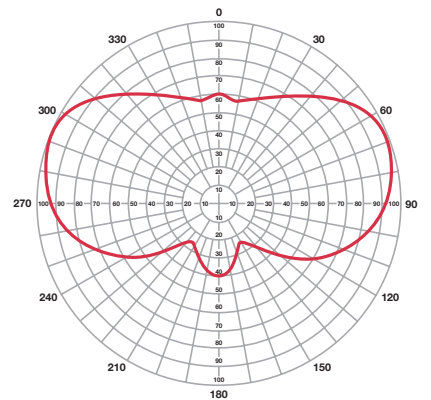
AZIMUTH GAIN: 1.6

TLP-BB-H



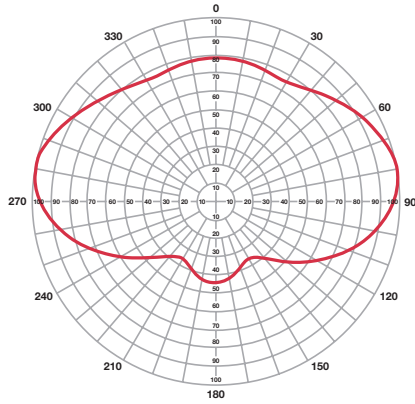
AZIMUTH GAIN: 1.7

TLP-BB-I



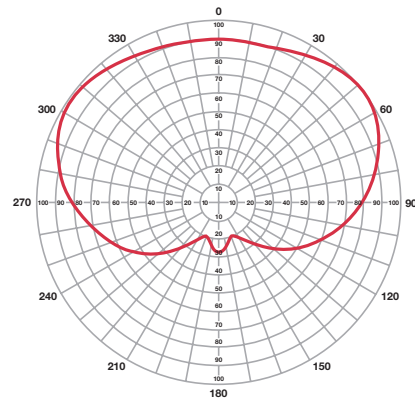
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TLP-BB-J



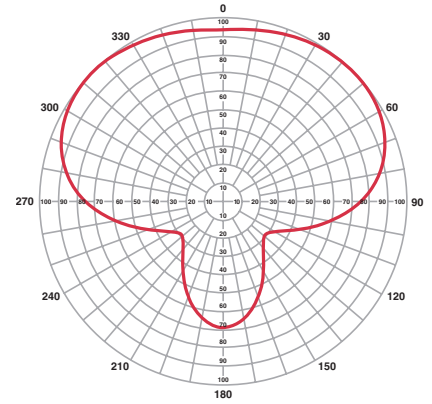
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TLP-BB-M



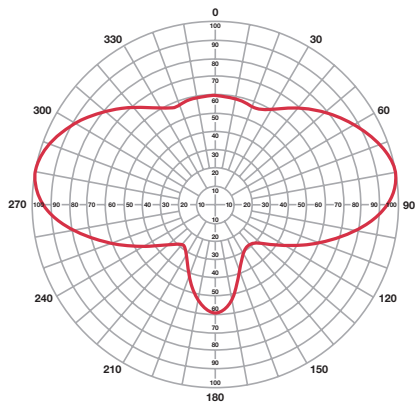
AZIMUTH GAIN: 1.9

TLP-BB-L



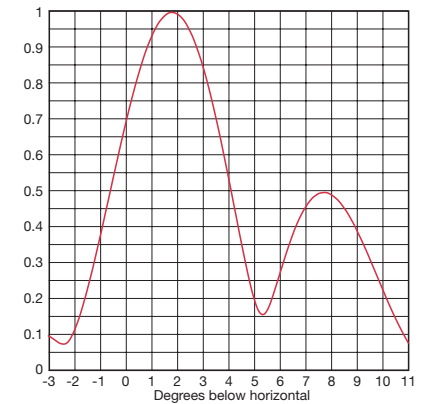
AZIMUTH GAIN: 1.7

TLP-BB-O



AZIMUTH GAIN: 2.2

TLP-BB-12



RMS GAIN: 10.0 (9.98 dB)

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