



Dielectric's TUL Series panel antenna is designed for medium bandwidth using circular polarization.

**Dielectric Advantages**

- Operating Range: 60 MHz band within 470-860 MHz
- Circularly polarized panel
- Economical broadband design
- A key building block for antennas with different azimuth and elevation patterns
- Suitable for analog or DTV applications on many channels
- 500 W average power per panel with 7-16 DIN input
- 4 standard azimuth patterns available
- Low VSWR, <1.1:1 over operating band
- Aluminum construction
- ABS radome for environmental protection
- Custom azimuth and elevation patterns available upon request
- Panels are equipped with a bracket for mounting to a 2" nominal pipe
- Elliptical polarization available

**Electric Specifications—Individual Panel**

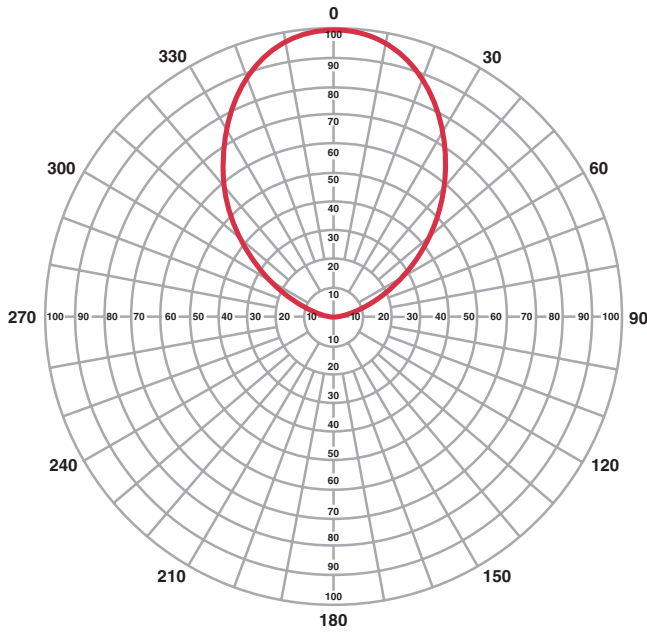
Band	Polarization	VSWR	Input	Power Rating
UHF ch. 14-23 ch. 24-32 ch. 33-41 ch. 42-52	Circular	1.1:1	7-16 DIN	500W per panel

**Mechanical Specifications—Individual Panel**

Model	Height ft (m)	Weight lb (kg)	Wind Area <sup>1</sup> ft <sup>2</sup> (m <sup>2</sup> )	Dimensions LxWxD (in)
TUL UHF CP	3.2 (1.0)	20 (9.1)	6.8 (0.63)	32.25 x 18.25 x 8.10

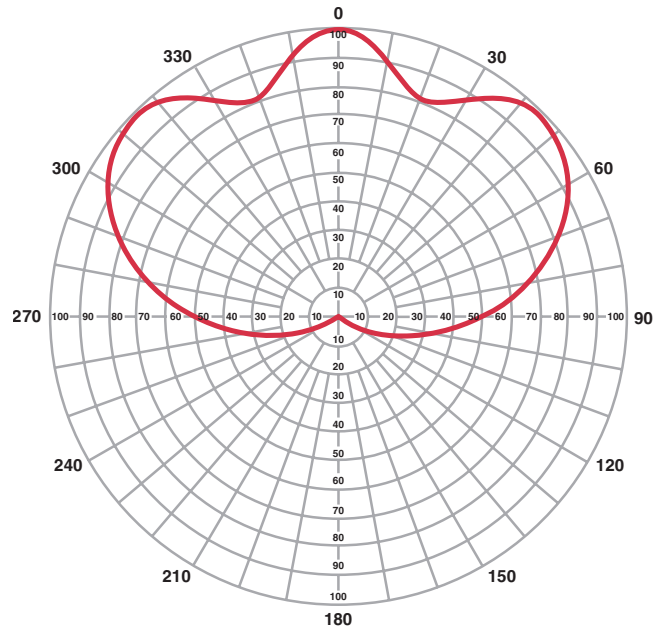
<sup>1</sup> Wind area C<sub>A</sub>A<sub>c</sub> per TIA/EIA-222-G

TUL-C1



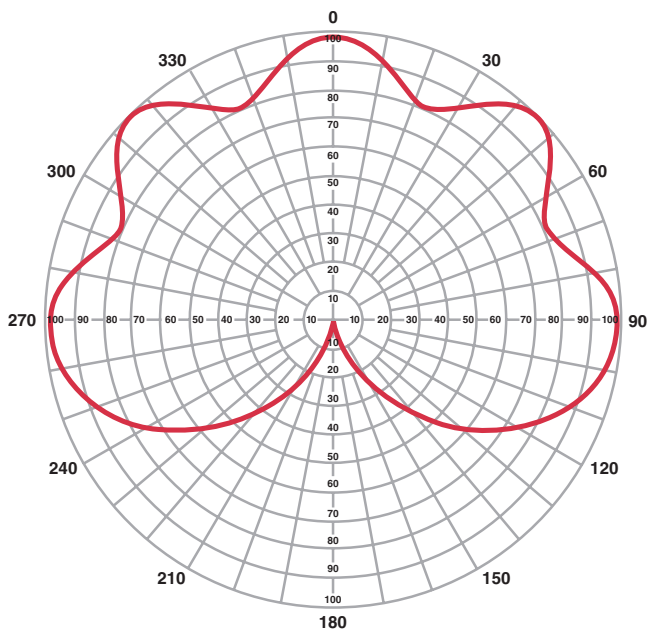
AZIMUTH GAIN: 5.2

TUL-C2



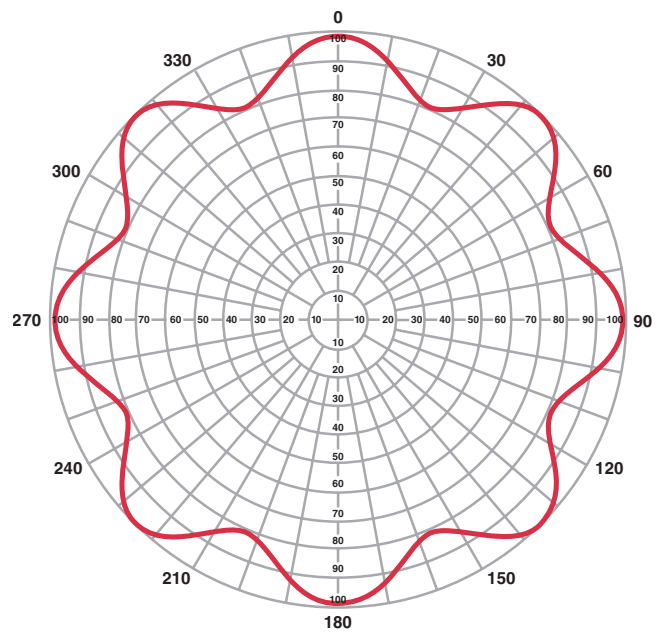
AZIMUTH GAIN: 2.6

TUL-C3



AZIMUTH GAIN: 1.8

TUL-O4



AZIMUTH GAIN: 1.3

**Notes:**

1. Patterns shown are typical and calculated using a 24" square tower at 587 MHz. Specific gains and patterns will be supplied with the proposal.

Antenna Type	Azimuth Pattern	Peak Gain (Ratio)	Peak Gain (dBd)	Length (ft)	Weight (lb)	Wind Area (ft <sup>2</sup> )
TUL-C1-1/1	C1	5.2	7.2	3.2	20	5.83
TUL-C1-2/2	C1	11.5	10.6	6.78	51.8	13.82
TUL-C1-3/3	C1	17.7	12.5	10.36	74.05	20.85
TUL-C1-4/4	C1	23.4	13.7	13.94	97.2	28.36
TUL-C2-1/2	C2	2.6	4.2	3.2	51.8	11.92
TUL-C2-2/4	C2	5.7	7.6	6.78	95.4	23.6
TUL-C2-3/6	C2	8.9	9.5	10.36	140.8	36.24
TUL-C2-4/8	C2	11.7	10.7	13.94	188	49.84
TUL-C3-1/3	C3	1.8	2.6	3.2	72.7	14.9
TUL-C3-2/6	C3	4.0	6.0	6.78	138.1	30.04
TUL-C3-3/9	C3	6.1	7.9	10.36	206.2	46.62
TUL-C3-4/12	C3	8.1	9.1	13.94	297	67.04
TUL-O4-1/4	O4	1.3	1.1	3.2	93.6	18.79
TUL-O4-2/8	O4	2.9	4.6	6.78	180.8	38.3
TUL-O4-3/12	O4	4.4	6.4	10.36	291.6	62.13
TUL-O4-4/16	O4	5.9	7.7	13.94	386	85.48

- Peak gain is per polarization
- Wind area  $C_{A_C}$  per TIA/EIA-222-G
- Weight excludes brackets and mounting hardware, includes typical feed system