



Dielectric’s TUA-M Series panel antenna is designed for broadband horizontally polarized operation.

Dielectric Advantages

- Operating Range: 470-860 MHz
- Horizontally polarized panel
- Economical broadband design
- A key building block for antennas with different azimuth and elevation patterns
- Suitable for multiplexing many channels
- 1 kW average power per panel with 7-16 DIN input
- 7 different 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

Electric Specifications—Individual Panel

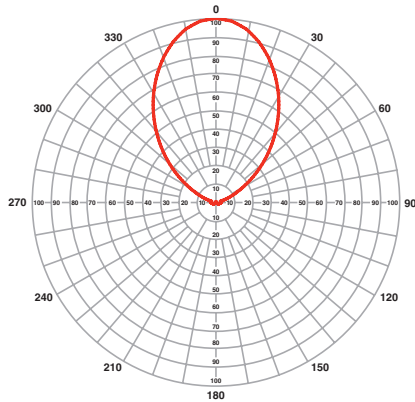
Band	Polarization	VSWR	Input	Power Rating
UHF 470-806 MHz	Horizontal	1.1:1	7-16 DIN	1 kW per panel

Mechanical Specifications—Individual Panel

Model	Height ft (m)	Weight lb (kg)	Wind Area ¹ ft ² (m ²)	Dimensions LxWxD (in)
TUA-M	3.2 (1.0)	25 (11.4)	6.8 (0.63)	38.25 x 18.25 x 8.10

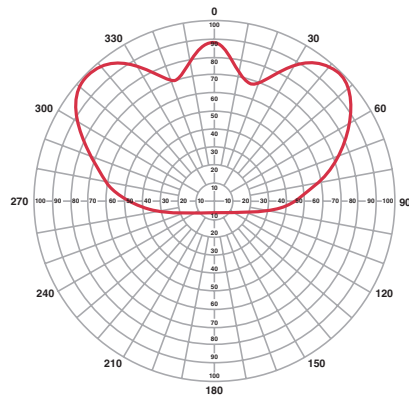
¹ Wind area C_AA_C per TIA/EIA-222-G

TUA-M-C1



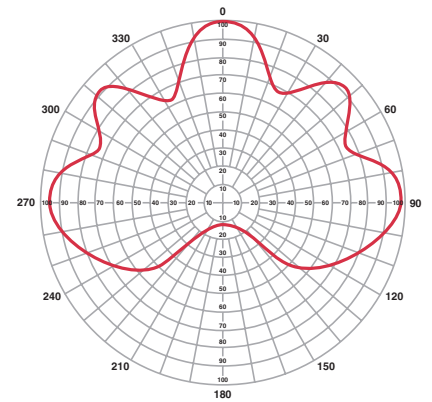
AZIMUTH GAIN: 6.0

TUA-M-C2



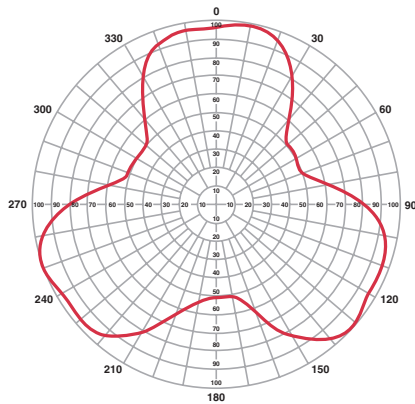
AZIMUTH GAIN: 2.9

TUA-M-C3



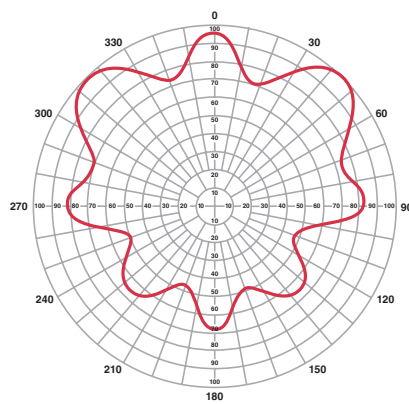
AZIMUTH GAIN: 1.9

TUA-M-T3



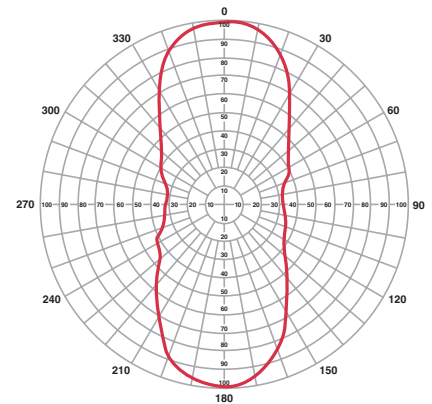
AZIMUTH GAIN: 1.6

TUA-M-S4



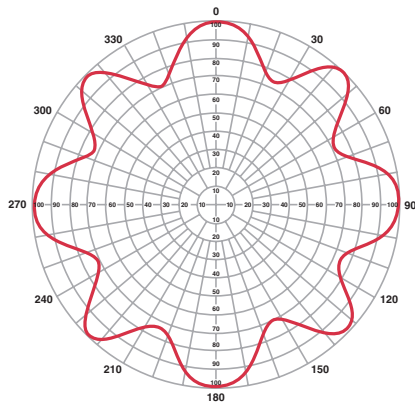
AZIMUTH GAIN: 1.9

TUA-M-P4



AZIMUTH GAIN: 2.5

TUA-M-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 ²)
TUA-M-C1-1/1	C1	12.0	10.8	3.2	25	5.83
TUA-M-C1-2/2	C1	26.4	14.2	7	61.8	14.06
TUA-M-C1-3/3	C1	40.8	16.1	10.8	89.05	21.39
TUA-M-C1-4/4	C1	54.0	17.3	14.6	117.2	29.32
TUA-M-C2-1/2	C2	5.8	7.6	3.2	61.8	12.16
TUA-M-C2-2/4	C2	12.8	11.1	7	115.4	24.32
TUA-M-C2-3/6	C2	19.7	12.9	10.8	170.8	37.68
TUA-M-C2-4/8	C2	26.1	14.2	14.6	228	52.24
TUA-M-C3-1/3	C3	3.8	5.8	3.2	87.7	15.26
TUA-M-C3-2/6	C3	8.4	9.2	7	168.1	31.12
TUA-M-C3-3/9	C3	12.9	11.1	10.8	251.2	48.78
TUA-M-C3-4/12	C3	17.1	12.3	14.6	357	70.64
TUA-M-T3-1/4	T3	3.2	5.1	3.2	87.7	14.35
TUA-M-T3-2/8	T3	7.0	8.5	7	168.1	29.3
TUA-M-T3-3/12	T3	10.9	10.4	10.8	251.2	46.05
TUA-M-T3-4/16	T3	14.4	11.6	14.6	357	67
TUA-M-S4-1/4	S4	3.8	5.8	3.2	113.6	19.27
TUA-M-S4-2/8	S4	8.4	9.2	7	220.8	39.74
TUA-M-S4-3/12	S4	12.9	11.1	10.8	351.6	65.01
TUA-M-S4-4/16	S4	17.1	12.3	14.6	466	90.28
TUA-M-P4-1/4	P4	5	7.0	3.2	113.6	19.27
TUA-M-P4-2/8	P4	11.0	10.4	7	220.8	39.74
TUA-M-P4-3/12	P4	17.0	12.3	10.8	351.6	65.01
TUA-M-P4-4/16	P4	25.5	13.5	14.6	466	90.28
TUA-M-O4-1/4	O4	2.6	4.1	3.2	113.6	19.27
TUA-M-O4-2/8	O4	5.7	7.6	7	220.8	39.74
TUA-M-O4-3/12	O4	8.8	9.5	10.8	351.6	65.01
TUA-M-O4-4/16	O4	11.7	10.7	14.6	466	90.28

- Wind area $C_A A_C$ per TIA/EIA-222-G
- Weight excludes brackets and mounting hardware, includes typical feed system