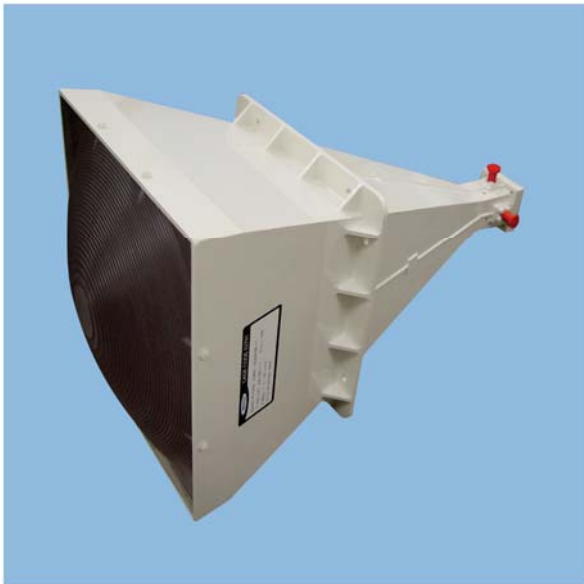




## Dual Polarized Quad-Ridged Horns



### FEATURES:

- Broadband Coverage
- Polarization Diversity (V, H, RHCP, LHCP)
- Designed to MIL-E-5400 & MIL-E-16400
- High Gain and Efficiency

TECOM has developed a series of Broadband, quad-ridged Horn antennas covering the frequency spectrum of 1.0 to 26.0 GHz.

These horns provide high isolation between channels with low phase and amplitude imbalance. TECOM's family of Dual Polarized Horn antennas are capable of receiving simultaneous vertical and horizontal polarizations. Switchable right/left circular, vertical and horizontal polarization reception is obtainable by combining the two output ports with appropriate hybrids and switches.

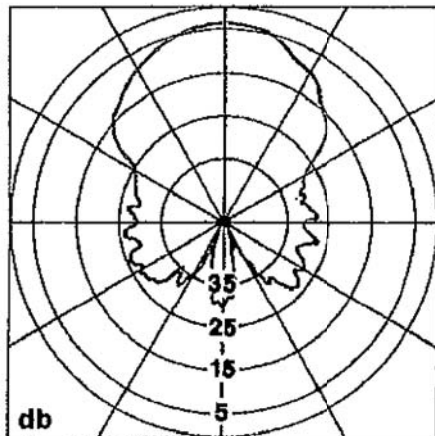
TECOM's Quad-Ridged Horn antennas are supplied with dust cover dielectric radomes over the apertures and may be used alone or as reflector feeds.

Electrical Performance Specifications								
Type Number	Frequency Range	Minimum Gain (dbi)	Nom 3db BW	VSWR		Power (CW)	Nominal Isolation	Impedance
				Average	Max			
201187-1	1.0 - 4.0 GHz	4.5 - 12	80° - 40°	2.0:1	3.0:1	50W	20 dB	50 Ohms
201821	1.7 - 18.0 GHz	8.0 - 24.0	50° - 7.5°	2.0:1	3.5:1	5W	20 dB	50 Ohms
201182	4.0 - 8.0 GHz	6 - 9	75° - 55°	2.0:1	3.0:1	25W	20 dB	50 Ohms
201187	4.0 - 18.0 GHz	8 - 14	70° - 25°	2.0:1	3.0:1	15W	20 dB	50 Ohms
201187-4	8.0 - 18.0 GHz	6 - 12	80° - 40°	2.0:1	3.0:1	5W	20 dB	50 Ohms
201187-3	12.0 - 26.0 GHz	6 - 9	80° - 40°	2.0:1	3.0:1	5W	20 dB	50 Ohms

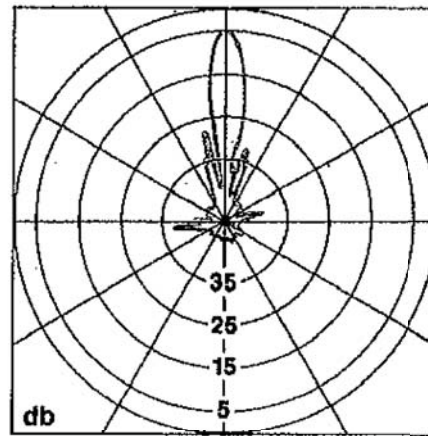
### Common Electrical Performance Data

- 1) Polarization: Dual Linear
- 2) Connector: (2 ea.): SMA

## PERFORMANCE CURVES TYPICAL RADIATION PATTERNS



Primary Pattern (15.0 GHz)



Secondary Pattern (15.0 GHz)  
Using 6" dia. reflector

MECHANICAL SPECIFICATIONS:												
TYPE NO.	FIG	"A" DIM		"B" DIM		"C" DIM		"D" DIM		"E" DIM		MAX WEIGHT
		In	Cm	In	Cm	In	Cm	In	Cm	In	Cm	
201187-1	2	10.80	27.43	3.10	7.87	2.350	5.97	10 - 32 x.38 in. DP (.96 cm)		6.8	17.27	7.5 lb.
201821	3	SEE BELOW										13.0 lb.
201182	1	4.40	11.17	1.43	3.63	.875	2.22	8 - 32 x.25 in. DP (.63 cm)		—	—	1.0 lb.
201187	3	6.00	15.24	1.05	2.67	.625	1.58	4 - 40 x.19 in. DP (.48 cm)		1.87	4.75	1.0 lb.
201187-4	1	3.12	7.92	.92	2.33	.625	1.58	4 - 40 x.19 in. DP (.48 cm)		—	—	.5 lb.
201187-3	1	3.19	8.10	.90	2.29	.701	1.78	4 - 40 x.25 in. DP (.63 cm)		—	—	.5 lb.

