



Broadband Dual Polarized Log Periodic Antennas



- Broadband Coverage with Constant Gain and Beamwidths
- Polarization Diversity
 - Vertical
 - Horizontal
 - Right Hand and Left Hand Circular Polarization Available
- Removable Elements for Transportability and Stowage
- Extremely Rugged - Perform to Specs in Severe Environments
- MIL-E-16400 Design

Each TECOM multimode antenna has two independent planar, log periodic structures positioned at quadrature on a common axis, each having its own feed system.

The antennas, therefore, in conjunction with appropriate hybrid mixers and switches, can be made to yield simultaneous left/right circular polarization or simultaneous vertical/horizontal polarizations, thus providing a diversity reception capability.

Low frequency models have rugged aluminum structures, while the antennas that operate between 0.5 and 26.5 GHz are hermetically sealed in a foam-filled fiberglass radome. This added stability and environmental protection make these antennas ideally suited as primary feeds for parabolic reflectors.

Electrical Performance Specifications

Type Number	Frequency Range	VSWR (Max)	Nominal Gain dBi	3dB Beamwidth Nominal		Isolation	Input Power Average
				E-Plane	H-Plane		
201145	20 - 1100 MHz	2.5:1	7.5	65	100	20 dB	200W
201034	30 - 1100 MHz	2.25:1	7.5	65	100	20 dB	200W
201060	50 - 1100 MHz	2.25:1	7.5	65	100	20 dB	200W
201026	90 - 1100 MHz	2.25:1	7.5	65	100	20 dB	200W
201151	150 - 1100 MHz	2.25:1	7.5	65	100	20 dB	200W
201043	250 - 1100 MHz	2.25:1	7.5	65	100	20 dB	200W
201516	0.5 - 18.0 GHz	3.0:1*	7.5	65	100	15 dB	5W
201520	4.0 - 18.0 GHz	3.0:1	7.5	65	100	15 dB Avg.	10W
201302	1.0 - 18.0 GHz	3.0:1**	6.5	65	100	15 dB Avg.	5W
201302X	1.0 - 26.5 GHz	***	6.5	65	100	15 dB Avg.	5W

Common Electrical Performance Data

- 1) Polarization: Dual Linear
- 2) F/B Ratio: 20 dB typical high frequency
- 3) Power: 200 W CW to 1 GHz 10 W CW to 12 GHz 5 W CW to 26.5 GHz

* 95% ** 98% *** 3.0:1 max 1-18 GHz
3.5:1 max 18-22 GHz
4.5:1 max 22-26.5 GHz