



California Amplifier



Parabolic Antennas and Passive Feeds

California Amplifier's high performance parabolic antennas provide unparalleled performance across the MDS, ISM and MMDS bands.

Our proprietary feed design, a "Quasi-Log Periodic End Fire Array," is the heart of the package offered exclusively by California Amplifier. Through optimization of the critical physical parameters that affect the co-polarized and cross-polarized radiation patterns, this patented feed provides high interference and multipath rejection than any other parabolic antenna combination.

In addition to narrow beamwidth, the antenna has been engineering with low sidelobes and also offers excellent front-to-back performance.

The reception of digital signals is generally limited by interference from reflections, nearby transmitters, or adjacent wireless services. An antenna's overall performance, its beamwidth, directivity, sidelobes and front-to-back ratio, is the key factor in providing a reliable link.

California Amplifier's parabolic antennas offer exceptional resistance from multipath effects and other interference. This package provides the ideal solution for today's demanding wireless services over MDS, ISM and MMDS spectrum.

Proprietary quasi-log periodic feed

High Interference and multipath rejection

Excellent front-to-back performance

Easy Installation



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ISO 9001



Certificate #A3505

	130093/130120 21 dBi QLP Parabolic Assembly			130094/130135 24 dBi QLP Parabolic Assembly		
Electrical:						
Frequency Range (MHz)	2150-2162	2400-2483	2500-2700	2150-2162	2400-2483	2500-2700
Gain	19 dB ± 1 dB	20.5 dB ± 1 dB	21 dB ± 1 dB	22 dB ± 1 dB	23.5 dB ± 1 dB	24 dB ± 1 dB
Efficiency	43%	44%	45%	47%	48%	50%
VSWR	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1
3-dB Beamwidth	14.8° ± 1.2°	13.0° ± 1.5°	12.5° ± 1.5°	12.5° ± 0.5°	10.0° ± 1.0°	9.75° ± .75°
Side Lobe Level	-18 dB ± 2dB	-19 dB ± 3dB	-19 dB ± 3dB	-18 dB ± 2dB	-20 dB ± 3dB	-20 dB ± 3dB
Front to Back Ratio						
over near hemisphere	18 dB	18 dB	18 dB	21 dB	21 dB	21 dB
at 180 degrees	22 dB	25 dB	27 dB	28 dB	28 dB	28 dB
Polarization	Vertical or Horizontal			Vertical or Horizontal		
Cross Polarization Rejection	25 dB	25 dB	28 dB	28 dB	28 dB	28 dB
Mechanical:						
Reflector Type	Wire Grid Parabola			Wire Grid Parabola		
Size	20" x 24"			27" x 30"		
Weight	3.6 lbs			5.3 lbs		
Surface Accuracy	0.05" RMS			0.05" RMS		
Focal Length	11"			15"		
F/d Ratio	0.46 - 0.56 Quasi Log Periodic			0.46 - 0.56 Quasi Log Periodic		
Feed Type	End Fire Array Stainless Steel			End Fire Array Stainless Steel		
Mounting	Hardware for 3/4"-2" O.D. Mast			Hardware for 3/4"-2" O.D. Mast		
Azimuth Adjustment	Continuous			Continuous		
Finish	Powder Coat Paint, Gray			Powder Coat Paint, Gray		
Connector	"N" Type Male			"N" Type Male		
Operating Temperature	-40° C to +80° C			-40° C to +80° C		

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