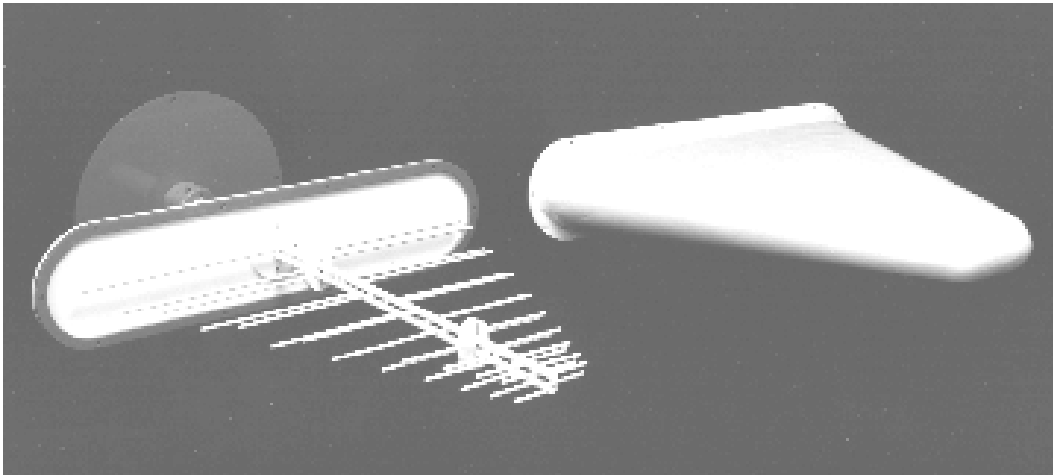


## Series 27 Broadband Feeds



1208

### Features

- Offers continuous broadband coverage from 400 MHz to 12.4 GHz
- Designed for use with Series 22 reflectors

### Description

Broadband frequency coverage makes the Series 27 Log Periodic Feeds ideally suited for antenna pattern range applications. Series 27 units cover the frequency range of 0.4 to 12.4 GHz.

Series 27 Feeds are primarily intended for use in MI Technologies Series 22-4A, -6B, -8B, and -10A reflectors. To obtain the element thickness and accuracy required for performance through 12.4 GHz, the high frequency feeds are of printed-circuit construction. They are photo-etched from low-loss, copper-clad materials. Each feed is protected by a radome in which a desiccator is installed to prevent accumulation of moisture.

### Specifications

Feed Model Number	Reflector Model #	Frequency Range (GHz)	Nominal Gain at Band Edges (dB)	Nominal Beamwidth at Band Edges (degrees)	Max. VSWR	Power (watts)		Shipping Wgt. lbs (kg)
						Peak	Average	
27-0.4/10	22-10A	0.4 to 1.7	19-32	18-4	2.0	2500	200	8 (4)
27-1.0/8	22-8B	1.0 to 6.0	25-40	9-1.5	2.0	2500	25	5 (3)
27-4.0/8	22-8B	4.0 to 12.4	37-45	2-0.7	2.5	2500	10	4 (2)
27-1.0/6	22-6B	1.0 to 6.0	22-36	11-1.9	2.0	2500	25	5 (3)
27-4.0/4/6	22-6B	4.0 to 12.4	35-42	3-1	2.5	2500	10	4 (2)
27-4.0/4/6	22-4A	4.0 to 12.4	31-38	4.5-1.5	2.5	2500	10	4 (2)

Maximum cross-polarization, down -25 dB. Nominal side lobes, 18 dB. All specifications define combined performance when installed in a Series 22 parabolic reflector.

### Ordering Information

When ordering a Model 27-xx feed, refer to the table of specifications for the correct frequency range. Each model feed employs a female type-N connector.

### Options

Not Applicable

### Accessories

Series 22 Parabolic Reflectors