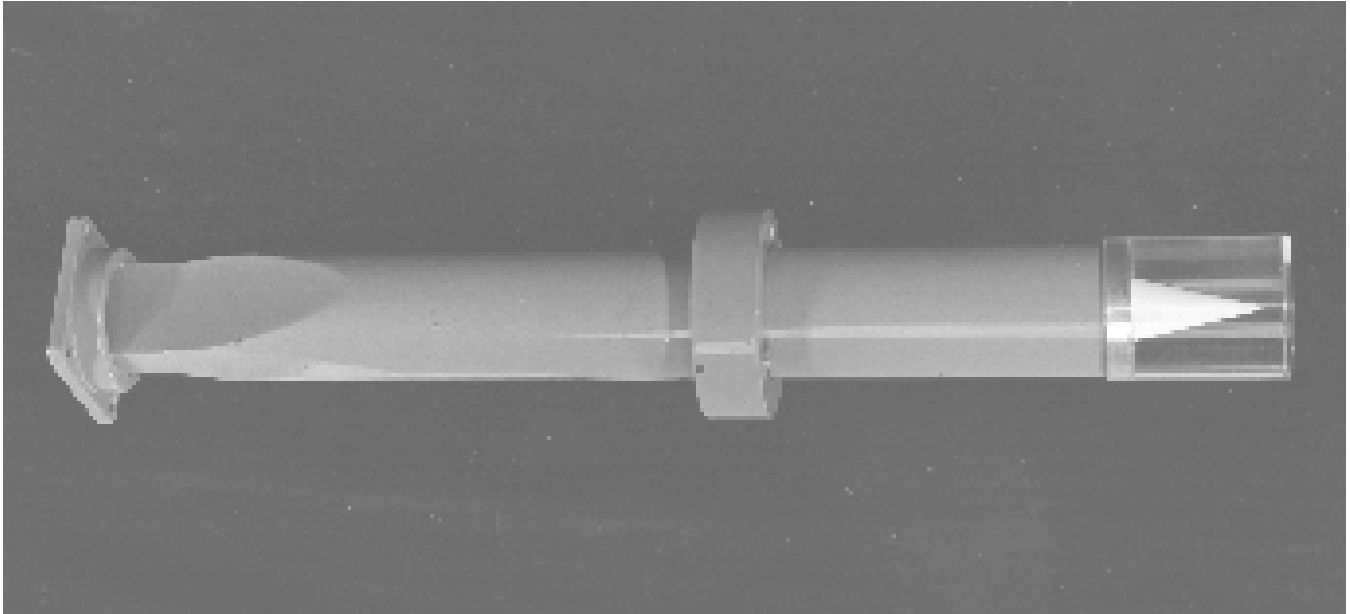


Series 30 Antenna Feeds



1121

Features

- Offers linear, right-hand or left-hand polarization
- Frequency coverage from 8.2 to 40 GHz

Description

MI Technologies Series 30 Antenna Feeds, when used with Series 22 Reflectors, generate linear or circularly polarized energy in waveguide frequency bands from 8.2 to 40 GHz. These antenna feeds are used in conjunction with one-, two-, or four-foot diameter reflectors.

The Series 30 Antenna Feed is an open-ended circular waveguide, radome-protected horn with rectangular waveguide input. It utilizes a differential phase-shifting section, which, depending on its orientation, transforms incident linearly polarized energy into a circular polarized signal or passes it without conversion. The phase-shifting section is manually rotated to three positions: right-hand circular, left-hand circular, or linear. Depending on the orientation of the rectangular waveguide, the linear polarization position will produce horizontal or vertical polarization.

Products - Antennas and Components

Series 30 Antenna Feeds - *continued*

Specifications

Antenna Feed Model No. ¹	Rec. Reflector		Freq. Range (GHz)	Nom. Gain at Band Edges (dB) ²	Nom. Beam Widths at Band Edges (degrees) ²	Max. VSWR	Max. Axial Ratio (dB)	Peak Power (kW)	Avg. Power (Watts)	Flange Type	Shipping Weight ¹ lbs (kg)
	Model No.	Dia. ft (m)									
30-8/4	22-4A	4 (1.2)	8.2-12.4	37-41	2.2-1.5	1.5	2	200	3	UG-39/U	200 (90)
30-8/2	22A-2	2 (0.6)	8.2-12.4	31-35	4.5-3.0	1.5	2	200	3	UG-39/U	100 (45)
30-12/2	22A-2	2 (0.6)	12.4-18.0	35-38	3.0-2.0	1.5	2	40	2	UG-419/U	100 (45)
30-18/2	22A-2	2 (0.6)	18.0-26.5	38-41	2.0-1.5	2.0	2	40	2	UG-595/U	100 (45)
30-26/2	22A-2	2 (0.6)	26.0-40.0	40-44	1.5-0.9	2.0	2	20	2	UG-599/U	100(45)
30-12/1	22A-1	1 (0.3)	12.4-18.0	29-32	5.8-4.0	1.5	2	100	2	UG-419/U	30 (14)
30-18/1	22A-1	1 (0.3)	18.0-26.5	32-35	4.0-2.7	2.0	2	40	2	UG-595/U	30 (14)
30-26/1	22A-1	1 (0.3)	26.0-40.0	34-38	2.7-1.9	2.0	2	20	2	UG-599/U	30 (14)

¹All specifications define combined performance when installed in a Series 22 parabolic reflector.

²Reflector and feed.

Ordering Information

All Series 30 feeds are made from brass. Round flanges (UG-425/U and UG-382/U) are available upon request for Models 30-18/x and 30-26/x feeds.

Refer to the specification table for recommended Series 22 reflectors. Parabolic reflectors are ordered separately.

Options

Not Applicable

Accessories

Series 22 Parabolic Reflectors