



### FEATURES

- Excellent Low Gain, Broad Beamwidth Illumination Source
- Low Cross Polarization
- Constant Beamwidth
- Linear Polarization
- Customizable Beamwidth Available

### IDEAL FOR

- Compact Range Testing
- Near-Field Testing
- UUT Illumination

### DESCRIPTION

NSI-MI Technologies offers a complete line of linearly-polarized high performance feeds covering frequencies from 0.75 to 110 GHz. Each feed horn generates the broad beamwidth (30° 1 dB beamwidth and 60° 3 dB beamwidth) radiation pattern required to optimize the performance of most compact range reflectors. This optimized radiation pattern is maintained over the full waveguide frequency bandwidth; thus maximizing the compact range system performance. Like all other NSI-MI Technologies' antennas, ANT-LPF feeds are designed and manufactured to provide many years of useful life in the test range.

### INCLUDES

- ANT-LPF Linear Polarized Feed
- User Manual

### AVAILABLE ADD-ONS

- Gain and Pattern Calibration
- Mounting Hardware
- Absorber Panel

## GENERAL CHARACTERISTICS

Nominal VSWR	1.5:1 (Max < 2:1)
Cross-Polarization Discrimination	> 35 dB
Operating Temperature Range	10°C - 50°C
Gain (Nominal)	10 dBi $\pm$ 0.5 dBi
3 dB Beamwidth	57° $\pm$ 4°
Max Power	100 Watts (Type N) 20 Watts (2.92 mm) 10 Watts (2.4 mm)

## SPECIFICATIONS

Model	Frequency Range (GHz)	Band	Connector Type	Feed Weight kg (lb)
ANT-LPF-0.75-1.12	0.75 - 1.12	UHF	N-Female	39 (86)
ANT-LPF-1.12-1.7	1.12 - 1.70	L	N-Female	16.4 (36)
ANT-LPF-1.7-2.6	1.70 - 2.60	LS	N-Female	7.7 (17)
ANT-LPF-2.6-3.95	2.60 - 3.95	S	N-Female	7.3 (16)
ANT-LPF-3.95-5.85	3.95 - 5.85	C	N-Female	2.3 (5)
ANT-LPF-5.85-8.2	5.85 - 8.20	XN	N-Female	1.5 (3.3)
ANT-LPF-8.2-12.4	8.20 - 12.4	X	N-Female	0.6 (1.1)
ANT-LPF-10-15	10.0 - 15.0	X-Ku	N-Female	0.5 (1)
ANT-LPF-12.4-18	12.4 - 18.0	Ku	N-Female	0.5 (1)
ANT-LPF-18-26.5	18.0 - 26.5	K	2.92 mm	0.2 (0.5)
ANT-LPF-26.5-40	26.5 - 40.0	Ka	2.92 mm	0.1 (0.2)
ANT-LPF-33-50	33.0 - 50.0	Q	2.4 mm	0.1 (0.2)
ANT-LPF-40-60	40.0 - 60.0	U	Waveguide	0.1 (0.2)
ANT-LPF-50-75	50.0 - 75.0	V	Waveguide	0.1 (0.2)
ANT-LPF-60-90	60.0 - 90.0	E	Waveguide	0.1 (0.2)
ANT-LPF-75-110	75.0 - 110.0	W	Waveguide	0.1 (0.2)

## TYPICAL MEASURED DATA

