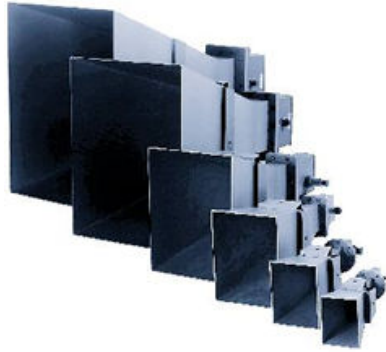


PYRAMIDAL STANDARD GAIN 3160 Pyramidal Standard Gain Antenna

ETS-Lindgren's Model 3160 Standard Gain Horns cover a multi-octave bandwidth of 1 GHz to 40 GHz. All models in the series are linearly polarized, have medium gain, optimum half power beamwidth (equal in both horizontal and vertical planes), and low VSWR.



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While the coaxial feed allows power input of up to 550 W (Models 3160-01, 02, 03), higher power input is possible by removing the detachable feed and direct mounting the flange to an amplifier waveguide port. While the coaxial feed allows power input of up to 550 W (Models 3160-01, 02, 03), higher power input is possible by removing the detachable feed and direct mounting the flange to an amplifier waveguide port.

Key Features

- Constant Antenna Factor Over Frequency
- Complete with Feed, Waveguide, Mount
- Increased Power Dissipation
- Optimal Beam Width
- Low VSWR

Specifications

Electrical Specifications

Model	Frequency	E-Plane	H-Plane	Maximum Continuous Power	Antenna Factor	Gain	Typical Field Strength	Pattern Type	Polarization
3160-01	0.96 GHz to 1.46 GHz	26°	27°	550 W	15.4 dB (1/m)	16.5 dBi	700 V/m	Directional	Linear
3160-02	1.12 GHz to 1.70 GHz	26°	26°	550 W	16.9 dB (1/m)	16.3 dBi	700 V/m	Directional	Linear
3160-03	1.70 GHz to 2.60 GHz	27°	27°	550 W	20.6 dB (1/m)	16.3 dBi	650 V/m	Directional	Linear
3160-04	2.60 GHz to 3.95 GHz	26°	27°	250 W	23.7 dB (1/m)	16.7 dBi	500 V/m	Directional	Linear
3160-05	3.95 GHz to 5.85 GHz	26°	27°	250 W	27.3 dB (1/m)	16.7 dBi	500 V/m	Directional	Linear
3160-06	5.85 GHz to 8.20 GHz	24°	25°	250 W	29.9 dB (1/m)	17.1 dBi	500 V/m	Directional	Linear
3160-07	8.20 GHz to 12.40 GHz	26°	26°	250 W	33.5 dB (1/m)	16.9 dBi	500 V/m	Directional	Linear
3160-08	12.40 GHz to 18.00 GHz	26°	27°	200 W	37.1 dB (1/m)	16.7 dBi	435 V/m	Directional	Linear
3160-09	18.00 GHz to 26.50 GHz	27°	27°	50 W	40.3 dB (1/m)	16.8 dBi	220 V/m	Directional	Linear
3160-10	26.50 GHz to 40.00 GHz	27°	27°	10 W	43.5 dB (1/m)	17.0 dBi	100 V/m	Directional	Linear

Physical Specifications

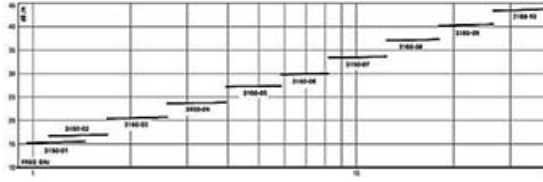
Model	Connectors	Waveguide type	Weight	Width	Depth	Height
3160-01	Type N Female	WR-770	25.00 kg (55.12 lb)	63.22 cm (24.89 in)	103.25 cm (40.65 in)	47.50 cm (18.70 in)
3160-02	Type N Female	WR-650	10.00 kg (22.05 lb)	53.44 cm (21.04 in)	88.29 cm (34.76 in)	40.18 cm (15.82 in)
3160-03	Type N Female	WR-430	4.55 kg (10.03 lb)	34.65 cm (13.64 in)	64.14 cm (25.25 in)	26.65 cm (10.49 in)
3160-04	Type N Female	WR-284	2.27 kg (5.00 lb)	24.13 cm (9.50 in)	55.25 cm (21.75 in)	18.14 cm (7.14 in)
3160-05	Type N Female	WR-187	1.62 kg (3.57 lb)	16.33 cm (6.43 in)	29.90 cm (11.77 in)	12.24 cm (4.82 in)
3160-06	Type N Female	WR-137	0.80 kg (1.76 lb)	12.24 cm (4.82 in)	29.90 cm (11.77 in)	9.04 cm (3.56 in)
3160-07	Type N Female	WR-90	0.43 kg (0.95 lb)	8.06 cm (3.17 in)	22.63 cm (8.91 in)	6.26 cm (2.46 in)
3160-08	Type N Female	WR-62	0.28 kg (0.62 lb)	5.54 cm (2.18 in)	14.00 cm (5.51 in)	4.27 cm (1.68 in)
3160-09	Type K Female	WR-42	0.11 kg (0.24 lb)	3.84 cm (1.51 in)	10.49 cm (4.13 in)	2.95 cm (1.16 in)
3160-10	Type K Female	WR-28	0.06 kg (0.13 lb)	2.76 cm (1.09 in)	8.69 cm (3.42 in)	2.15 cm (0.85 in)

Other Specifications

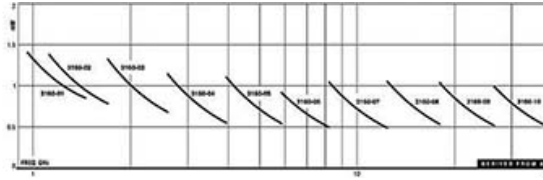
- Horn Assembly Consists of Coaxial Feed, Flanged Waveguide, and Mounting Bracket
- Mounting Bracket with 1/4 x 20 Threads
- Manual

Product Charts

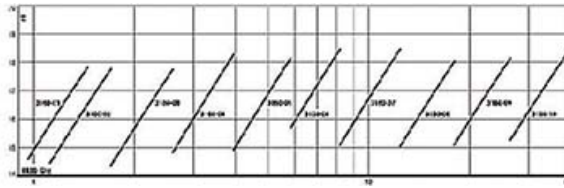
Model 3160 Pyramidal Standard Gain Antenna Antenna Factor



Model 3160 Pyramidal Standard Gain Antenna Forward Power at 1 m for 1 V/m (includes near-field gain compression)



Model 3160 Pyramidal Standard Gain Antenna Antenna Gain



Model 3160 Pyramidal Standard Gain Antenna VSWR

