

Features

- Weatherproof options
- Mounting Bracket options
- Manufactured Brass, Copper or Aluminium
- Models from 1.14 GHz to 750 GHz



Model 16240-15-03

The Flann Standard Gain Horns have a wide range of applications, (e.g. as transmitting, receiving or sampling antennas or for feeding reflectors).

The absolute gain of a standard gain horn is calculable from the flare dimensions. Flann Standard Gain Horns are precision components providing accurate and repeatable gain references.

In general, the lower frequency horns, models 06240 to 22240 inclusive, are accurately fabricated from brass or aluminium sheet. Models 23240 to 32240 inclusive are copper electroformed on precision mandrels which ensure high accuracy and repeatability. Typical gain/bandwidth curves are provided for all standard gain horns. 10 dB, 15 dB, 20 dB, 25 dB, 30 dB and 33 dB gain horns are also available in many waveguide sizes.

NB:- 25 dB models are approximately three times the overall length of the corresponding 20 dB models.

Ordering Information

WG	Series	-	Gain	-	Construction Type*	Mounting or Membrane	Material *
WG06 - WM380	240		10 15 20 25 30 33		0 = Plates 1 = Electroformed 2 = Machined Split Block 3 = Additive Manufacture	0 = None 1 = Membrane 2 = Bracket 3 = Membrane & Bracket	0 = Brass 1 = Copper 2 = Aluminium

*Defined by Flann unless specifically requested

Example: Model 26240-20-121 Standard Gain Horn, 20 dB



Specifications

Variation of mid-band gain with frequency: ± 2 dB
 Maximum of VSWR (20 dB models): 1.2 : 1

Model	Waveguide			Frequency (GHz)	Standard Mid-Band Gain (dB)
	WG	R	WR		
06240	6	14	650	1.14 - 1.73	10
08240	8	22	430	1.72 - 2.61	10
10240	10	32	284	2.60 - 3.95	15
11A240	11A	40	229	3.22 - 4.90	15
12240	12	48	187	3.94 - 5.99	20
13240	13	58	159	4.64 - 7.05	20
14240	14	70	137	5.38 - 8.18	20
15240	15	84	112	6.58 - 10.0	20
16240	16	100	90	8.20 - 12.5	20
17240	17	120	75	9.84 - 15.0	20
18240	18	140	62	11.9 - 18.0	20
19240	19	180	51	14.5 - 22.0	20
20240	20	220	42	17.6 - 26.7	20
21240	21	260	34	21.7 - 33.0	20
22240	22	320	28	26.4 - 40.1	20
23240	23	400	22	33.0 - 50.1	20
24240	24	500	19	39.3 - 59.7	20
25240	25	620	15	49.9 - 75.8	20
26240	26	740	12	60.5 - 92.0	20
27240	27	900	10	73.8 - 112	20
28240	28	1200	8	92.3 - 140	20
29240	29	1400	6	114 - 173	20
30240	30	1800	5	145 - 220	20
31240	31	2200	4	172 - 261	20
32240	32	2600	3	217 - 330	20