

Calibrated Frequency Meters Series 070

Features

- High Accuracy
- High Q
- Full Band

In designing a satisfactory frequency meter cavity, great care must be used in the selection of the operating mode of resonance, the diameter and the coupling elements in order that non-ambiguous operation is achieved over the full waveguide band.

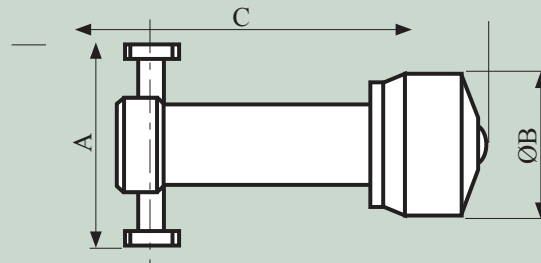
The Flann Series 070 Frequency Meters consist of a high Q electroformed precision cavity located on the rectangular waveguide narrow wall. The cavity operates in the TE₁₁₁ mode and is tuned by a non-contacting choked piston. All models have a minimum tuned response of 1 dB. A micrometer drive ensures precise control of the piston position enabling frequency measurement to a high accuracy. Each instrument is supplied with calibration data.



Model 17070

ORDERING INFORMATION

Model: Description
Example: Model 22070 Calibrated frequency meter



Series 070

Model	Frequency Range (GHz)	Waveguide			Calibrated Accuracy (%)	Typical Loaded Q	Dimensions (mm)		
		WG	W	WR			A	B	C
14070	5.38 - 8.18	14	70	137	0.010	7000	110	63	173
15070	6.58 - 10.0	15	84	112	0.010	6300	102	63	161
16070	8.20 - 12.5	16	100	90	0.010	5500	90	50	125
17070	9.84 - 15.0	17	120	75	0.010	5200	90	50	111
18070	11.9 - 18.0	18	140	62	0.012	4700	90	50	107
19070	14.5 - 22.0	19	180	51	0.012	4200	90	50	104
20070	17.6 - 26.7	20	220	42	0.012	3700	90	50	101
22070	26.4 - 40.1	22	320	28	0.025	3000	70	50	122
23070	33.0 - 50.1	23	400	22	0.025	2800	60	50	113
24070	39.3 - 59.7	24	500	19	0.030	2300	60	50	104
25070	49.9 - 75.8	25	620	15	0.035	2100	60	50	103
26070	60.5 - 92.0	26	740	12	0.035	1800	60	50	105
27070	73.8 - 112.0	27	900	10	0.050	1600	60	50	101
28070	92.0 - 140	28	1200	8	0.080	1200	60	50	95
29070	114 - 173	29	1400	6					
30070	145 - 220	30	1800	5					
31070	172 - 261	31	2200	4					
32070	217 - 330	32	2600	3					

Specification available
on
request

For standard flange types and recommendations see pages 118 onwards