



**FLANN MICROWAVE**

## Manual Precision Variable Short Circuits

Series 050

### Features

- **Non-Contacting Choked Piston**
- **Precision Micrometer Lockable Drive**



Model 30050

The Flann Series 050 of Waveguide Short Circuits features a length of waveguide which houses a non-contacting choked, low-high-low impedance piston.

Millimetre wave units utilise a precision machined waveguide section. Careful choke design ensures freedom from spurious resonances. The piston is driven by a precision calibrated mechanism which enables accurate and resettable piston positioning.

The drive mechanism is fitted with a lock.

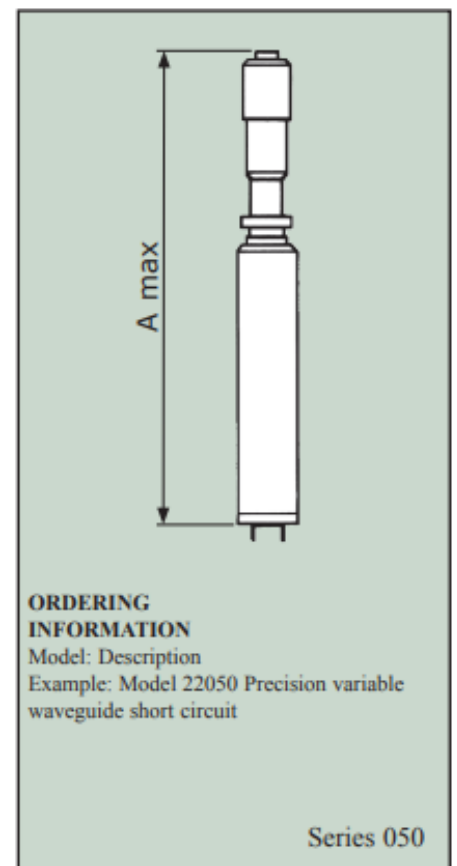
All units provide a high VSWR and an accurate reference to the flange face.

The piston movement for each model is greater than half of the waveguide wavelength at the lowest frequency. Variable short circuits can be used to establish an accurate reference plane for VSWR and impedance measurements.

The Flann Series 051 of Waveguide Short Circuits offers the user an automated version. Please contact Sales for further information.

### Custom Design

Custom built instruments can be supplied; please contact the sales team for more information [sales@flann.com](mailto:sales@flann.com)



### FLANN MICROWAVE LTD.

Dunmere Road  
Bodmin  
Cornwall  
PL31 2QL

### GET IN TOUCH:

Tel: +44 (0)1208 77777  
sales@flann.com  
www.flann.com

**Specifications**

Model	Frequency Range (GHz)	Waveguide			Reflection coefficient	Dimension A (mm)
		WG	R	WR		
<b>10050</b>	2.6 - 3.95	10	32	284	>0.995	493
<b>11A050</b>	3.22 - 4.9	11A	40	229	>0.995	456
<b>12050</b>	3.94 - 5.99	12	48	187	>0.995	410
<b>13050</b>	4.64 - 7.05	13	58	159	>0.995	364
<b>14050</b>	5.38 - 8.18	14	70	137	>0.995	318
<b>15050</b>	6.58 - 8.18	15	84	112	>0.995	278
<b>16050</b>	8.20 - 12.5	16	100	90	>0.995	263
<b>17050</b>	9.84 - 15.0	17	120	75	>0.995	253
<b>18050</b>	11.9 - 18.0	18	140	62	>0.995	260
<b>19050</b>	14.5 - 22.0	19	180	51	>0.995	204
<b>20050</b>	17.6 - 26.7	20	220	42	>0.990	205
<b>22050</b>	26.4 - 40.1	22	320	28	>0.985	150
<b>23050</b>	33.0 - 50.1	23	400	22	>0.985	140
<b>24050</b>	39.3 - 59.7	24	500	19	>0.985	140
<b>25050</b>	49.9 - 75.8	25	620	15	>0.985	127
<b>26050</b>	60.5 - 92.0	26	740	12	>0.980	127
<b>27050</b>	73.8 - 112	27	900	10	>0.980	126
<b>28050</b>	92.3 - 140	28	1200	8	>0.980	126
<b>29050</b>	114 - 173	29	1400	6	Specification / dimensions available on request	
<b>30050</b>	145 - 220	30	1800	5		
<b>31050</b>	172 - 261	31	2200	4		
<b>32050</b>	217 - 330	32	2600	3		

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