

Tunable Shorts

Summary:

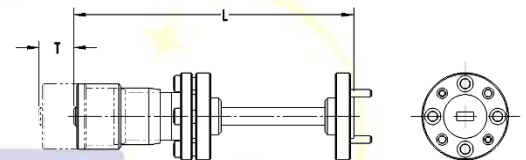
Precision Tunable shorts are used to provide a variable short circuit reference plane in waveguide set-ups. Each of these tunable shorts consists of a flanged section of straight waveguide with a micrometer driven short attached to one end. The micrometer drive provides precise movement of the shorting plunger of more than one half wavelength at the lowest operating frequency of each waveguide size. The micrometers used on these shorts utilize a special dampening feature making the locking type of micrometer unnecessary. Tunable Shorts are available in sizes WR3 to WR42. Sizes WR3 to WR12 are electroformed, WR15 and above are made from extruded copper.



This product is now available with a metric micrometer drive assembly.

Ordering Example:

TS22R is a tunable short in WR22 with a round flange.



Part Name	RF Specifications			Mechanical Specifications			
	WR	Frequency (GHz)	WG A DIM (in)	WG B DIM (in)	Length - A (in)	Travel Length - B (in)	Flange
TS42S	42	18 - 26.5	0.4200	0.1700	3.550	0.600	S 0.875
TS28S	28	26.5 - 40	0.2800	0.1400	2.525	0.400	S 0.750
TS22R	22	33 - 50	0.2240	0.1120	2.225	0.400	R 1.125
TS19R	19	40 - 60	0.1880	0.0940	2.225	0.400	R 1.125
TS15R	15	50 - 75	0.1480	0.0740	2.025	0.300	R 0.750
TS12R	12	60 - 90	0.1220	0.0610	1.775	0.200	R 0.750
TS10R	10	75 - 110	0.1000	0.0500	1.775	0.200	R 0.750
TS8R	8	90 - 140	0.0800	0.0400	1.775	0.200	R 0.750
TS6R	6	110 - 175	0.0650	0.0325	1.775	0.200	R 0.750
TS5R	5	140 - 220	0.0510	0.0255	1.775	0.200	R 0.750
TS4R	4	170 - 260	0.0430	0.0215	1.775	0.200	R 0.750
TS3R	3	220 - 325	0.0340	0.0170	1.775	0.200	R 0.750

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