

Variable Phase Shifters

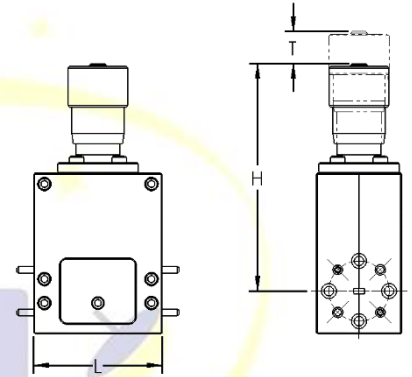
Summary:

These Phase Shifters are used for varying the electrical length of transmission lines. Each unit consists of a section of waveguide with a narrow slot milled in the broad wall. Through this slot, a thin rexolite vane is introduced into the waveguide by a precision micrometer. The drive mechanism is arranged to provide more than 180° of phase shift over 0.300" travel on the micrometer dial, depending on the waveguide size. Featuring no backlash, these units will produce accurate and reproducible settings. All units are un-calibrated. Variable Phase Shifters are available in sizes WR3 to WR42.

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

Ordering Example:

VP10R is a Variable Phase shifter in WR10 with a round flange hole pattern.



RF Specifications			Mechanical Specifications				
Part Name	WR	Frequency (GHz)	WG A DIM (in)	WG B DIM (in)	Length - A (in)	Height - B (in)	Flange
VP42S	42	18 - 26.5	0.4200	0.1700	*	*	S 0.875
VP28S	28	26.5 - 40	0.2800	0.1400	*	*	S 0.750
VP22R	22	33 - 50	0.2240	0.1120	1.500	2.185	R 1.125
VP19R	19	40 - 60	0.1880	0.0940	1.500	2.185	R 1.125
VP15R	15	50 - 75	0.1480	0.0740	1.500	2.125	R 0.750
VP12R	12	60 - 90	0.1220	0.0610	1.200	2.125	R 0.750
VP10R	10	75 - 110	0.1000	0.0500	1.200	2.125	R 0.750
VP8R	8	90 - 140	0.0800	0.0400	1.200	2.125	R 0.750
VP6R	6	110 - 175	0.0650	0.0325	1.200	2.125	R 0.750
VP5R	5	140 - 220	0.0510	0.0255	1.200	2.125	R 0.750
VP4R	4	170 - 260	0.0430	0.0215	1.200	2.125	R 0.750
VP3R	3	220 - 325	0.0340	0.0170	1.200	2.125	R 0.750

*Available Upon Request

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