



# WAVEGUIDE VARIABLE ATTENUATORS 60V Series

**DATA SHEET  
No. T150**

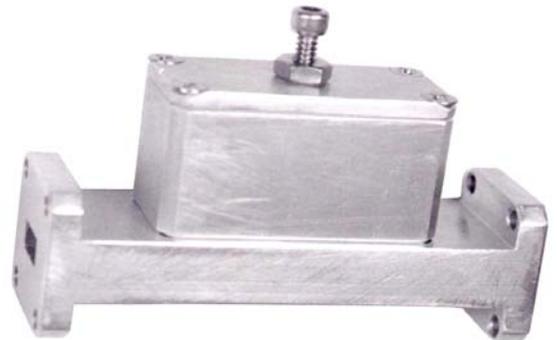
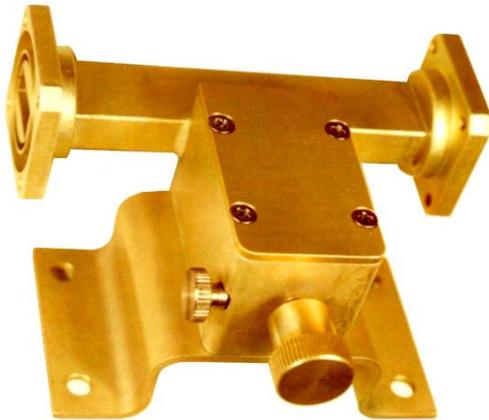
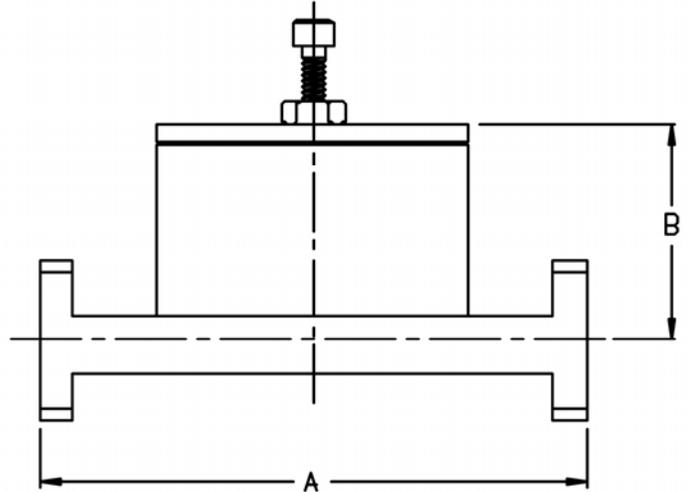
- **BROAD ATTENUATION RANGE**
- **LOW LOSS**
- **LOW VSWR**
- **FULL BAND**

## DESCRIPTION

MEC's 60V series of waveguide variable attenuators are available in attenuation ranges of 0-40 dB. Narrow or broad band versions may be ordered. Full band flatness is as low as  $\pm 0.5$  dB from 0-10 dB attenuation and  $\pm 0.7$  dB from 10-20 dB attenuation. Full band flatness degrades at higher attenuation levels, however narrower bandwidths can hold  $\pm 0.5$  dB flatness up to 40 dB attenuation.

Calibrated vernier drives are available upon request. A locking screw is standard on the drive mechanism. These components may be converted from variable to a fixed version by simply switching the attenuator block. Our high precision machining guarantees unit to unit repeatability within 0.1 dB.

The table below is a representative sample of MEC's available designs of variable attenuators. Contact MEC with your specific requirements. Our engineering staff will be glad to discuss your needs.



MODEL NUMBER	W/G SIZE	FREQ. (GHz)	ATTENUATION (dB)	FLATNESS (dB)		VSWR	INSERTION LOSS (dB)	A (Inches)	B (Inches)
X60-V	WR90	8.2-12.4	0-20	0-10 dB Atten. 10-20 dB Atten.	$\pm 1.0$ $\pm 3.0$	1.1:1	0.2 Max	10	1.34
P60-118	WR62	12.4-18	0-40	0-10 dB Atten. 10-20 dB Atten. 20-40 dB Atten.	$\pm 0.5$ $\pm 0.7$ $\pm 2.0$	1.1:1	0.2 Max	3.9	2.2
Y60-V	WR34	26-33	0-20	0-10 dB Atten. 10-20 dB Atten.	$\pm 0.5$ $\pm 0.7$	1.1:1	0.2 Max	3.0	1.2

