



# DOUBLE-RIDGE WAVEGUIDE SLIDING AND FIXED MISMATCHES R280 SERIES

**DATA  
SHEET  
No. T26C**

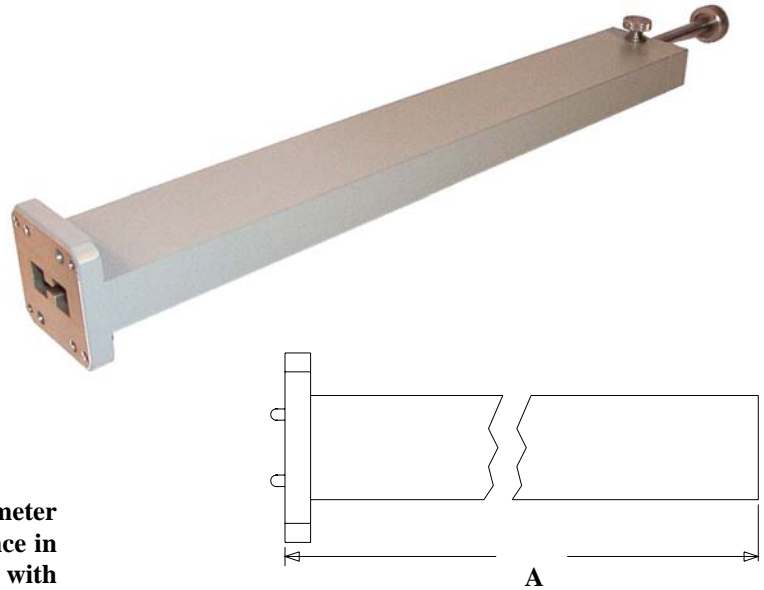
- OCTAVE BANDWIDTH
- ADJUSTABLE PHASE
- HIGH POWER DESCRIPTION

## DESCRIPTION

The MEC R280 Series of Standard Mismatches is designed to produce a constant VSWR over an octave or more in frequency bandwidth. Both Low Power (L) and High Power (H) units are available with Fixed Mismatches (FM). The Low Power (L) units are also made with Sliding Mismatches (SM), permitting phase adjustment over a half waveguide wavelength at the lowest operating frequency. VSWR accuracy of all models is within 1%.

Applications include calibration of slotted lines, reflectometer systems and similar set-ups, simulation of antenna impedance in equipment under development, testing of microwave tubes with variable phase terminations, etc.

The waveguide is aluminum with MEC Series C-1 flanges (cover type with alternate tapped and clearance holes). The mismatched sliding elements are rigidly attached and include a fastening nut for locking at any desired setting. Units are rugged and suitable for use as calibration standards. Body finish is chromate conversion per MIL-C-5541, Class 3, painted with epoxy enamel on external non-mating surfaces.



## SPECIFICATIONS

MODEL NUMBER	FREQUENCY RANGE (GHz)	WAVEGUIDE SIZE	FLANGE	LENGTH A (IN.)	AVERAGE POWER (WATTS)
<b>LOW POWER FIXED MISMATCHES</b>					
R280-LFM	8.0-18.0	WRD-750D24	MEC-750C1	6.0	10
R281-LFM	4.75-11.0	WRD-475D24	MEC-475C1	6.0	
R282-LFM	3.5-8.2	WRD-350D24	MEC-350C1	7.0	
R283-LFM	2.0-4.0	WRD-200D24	MEC-200C1	10.0	
R289-LFM	4.75-11.0	DR-19	MEC-DR19C1	6.0	
<b>HIGH POWER FIXED MISMATCHES</b>					
R280-HFM	8.0-18.0	WRD-750D24	MEC-750C1	8.0	200
R281-HFM	4.75-11.0	WRD-475D24	MEC-475C1	10.0	
R282-HFM	3.5-8.2	WRD-350D24	MEC-350C1	10.0	
R283-HFM	2.0-4.0	WRD-200D24	MEC-200C1	12.0	
R289-HFM	4.75-11.0	DR-19	MEC-DR19C1	10.0	
<b>LOW POWER SLIDING MISMATCHES</b>					
R280-LSM	8.0-18.0	WRD-750D24	MEC-750C1	8.77	10
R281-LSM	4.75-11.0	WRD-475D24	MEC-475C1	8.77	
R282-LSM	3.5-8.2	WRD-350D24	MEC-350C1	10.3	
R283-LSM	2.0-4.0	WRD-200D24	MEC-200C1	14.6	
R289-LSM	4.75-11.0	DR-19	MEC-DR19C1	8.77	

## ORDERING INFORMATION

- (1) Mismatches are available with VSWR values from 2.0 to 3.0. Specify VSWR and frequency band desired.
- (2) Other flanges are available on request, as well as fixed short circuits

