

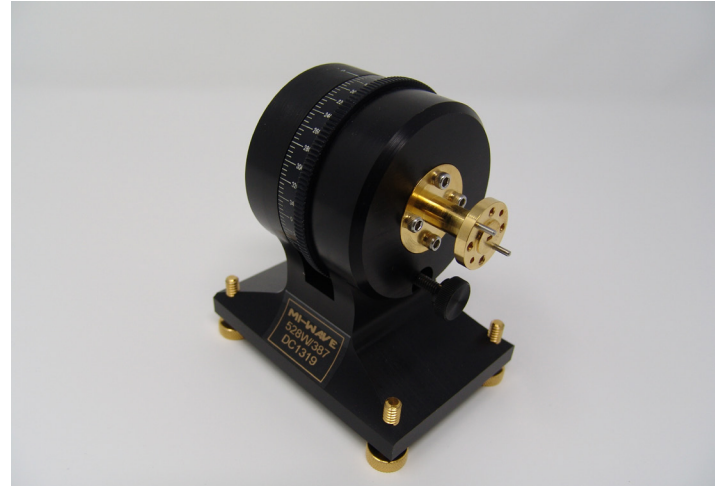
## Description

Mi-Wave's 528 Series Direct-reading Phase Shifters provide highly accurate measurement of phase shift over each full waveguide band from 26.5 to 170.0 GHz. They feature low VSWR, low insertion-loss, and low insertion-loss variation due to the rotation of the phasing section.

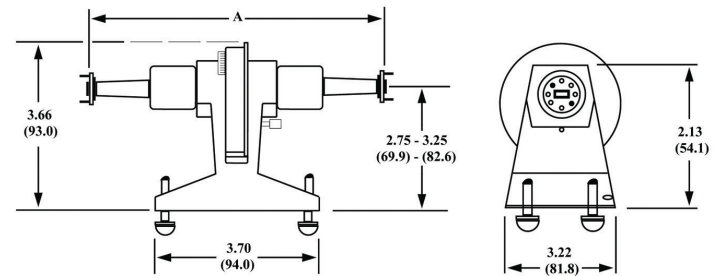
- *Compact & Mechanically-Stable Design*
- *Smooth Anti-backlash Phase Shift Control*
- *High Resolution Over a Wide Phase-shifting Range*

## Applications

The 528 Series Direct-reading Phase shifters offer a convenient, frequency insensitive method of measuring phase shift. These devices are useful in waveguide systems where the phase and amplitude must be measured or adjusted independently. Typical applications include bridge circuits, phased arrays, and interferometers.

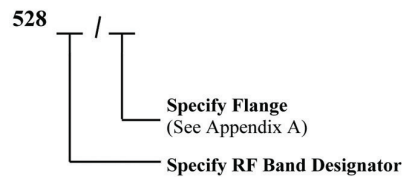


Dimensional Specifications		
Model No.	A	
	in	mm
528A	8.53	217.0
528B	6.85	174.0
528U	5.83	148.0
528V	4.75	121.0
528E	4.16	106.0
528W	3.38	85.8
XXXXXX	XXXXX	XXXXX
XXXXXX	XXXXX	XXXXX



Operation Specifications	
Phase Shift Range	0° to 360° Direct-reading
Read-out	0° to 360° in 5° Divisions with 0.5s vernier
Loss Variation	1.0 dB (Max.)

## Ordering Information



**OTHER BANDS AVAILABLE**

Technical Specifications (typical)								
Model No.	528A	528B	528U	528V	528E	528W	528F	528D
Frequency Band (GHz)	26.5-40	33-50	40-60	50-75	60-90	75-110	90-140	110-170
Accuracy (degrees) (typ)	± 3	± 3	± 3	± 4	± 5	± 5	± 5	—
Insertion Loss (dB)	1.0	1.2	1.3	1.5	1.8	2.0	3.0	4.0
VSWR (typ)	1.30	1.30	1.30	1.30	1.30	1.35	1.5	1.5
Average Power (watts)	1.0	1.0	1.0	0.8	0.7	0.6	0.5	0.3
Weight (oz)	30	29	28	27	26	24	24	23