

# **Direct-Reading Phase Shifters**

#### **FEATURES**

- High Accuracy
- Direct Reading Dial
- Frequency Independent
- Direct Drive With No Gears
- Continuously Adjustable Phase
- Low VSWR & Low Insertion Loss

### **APPLICATIONS**

- Test Equipment
- Subsystems
- Phased Arrays
- Interferometers



**CDS Series** 

#### **DESCRIPTION**

**Cernexwave's CDS Direct Reading Phase Shifters** provide highly accurate measurement of phase shift over each full waveguide band from 26.5 to 110.0 GHz. They feature low VSWR, low insertion loss, and low insertion loss variation due to the rotation of the phasing section.

## **SPECIFICATIONS**

Waveguide Band	Ka	Q	U	V	E	W
Waveguide Size	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10
Frequency Range (GHz)	26.5 to 40	33 to 50	40 to 60	50 to 75	60 to 90	75 to 110
Accuracy (°)	3	3	3	4	4	4
Insertion Loss (dB)	1.0	1.2	1.3	1.5	1.8	2.0
VSWR (max)	1.30	1.30	1.30	1.30	1.30	1.35
Average Power (W)	1.0	1.0	1.0	0.8	0.7	0.6
Weight (Oz)	30	29	28	27	26	24
Phase Shift Range	0° to 360° Direct Reading					
Read-Out	0° to 360° in 5° divisions, with 0.5° vernier					
Loss Variation	1.0 dB (max)					

#### **HOW TO ORDER**

**Specify Model Number** 

CDS-WG LF HF IL-XX WG = Waveguide Size

LF = Low End Frequency HF = High End Frequency

IL = Insertion Loss

XX = For Internal Use (may change at time of order)

Example: To order WR-15 direct reading phase shifter, specify CDS-15507501-XX