



Variable Phase Shifters

FEATURES:

- ❖ Rugged construction
- ❖ Full band operation
- ❖ 180 ° phase shifting
- ❖ Low cost

APPLICATIONS:

- ❖ Test equipment
- ❖ Subsystems
- ❖ Prototypes



CPS Series

DESCRIPTION:

Cernex CPS Series variable phase shifters are offered for the frequency range of 18 to 110 GHz in seven waveguide bands. The phase shifters utilize low loss dielectric material, which offers minimum insertion loss. The standard phase shifters are equipped with a micrometer dial, which allows for fine, accurate and repeatable phase settings. The variable phase shifters are typically used in the test setups and prototype assemblies where a certain amount of phase shift is required.

SPECIFICATIONS:

Waveguide Band	K	Ka	Q	U	V	E	W
Frequency Range (GHz)	18 to 26.5	26.5 to 40	33 to 50	40 to 60	50 to 75	60 to 90	75 to 110
Waveguide Size	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10
Variable Phase Shifting Range	0 to 180 degrees						
VSWR (Typical)	1.4:1						
Insertion Loss (dB, Typical)	0.4	0.4	0.5	0.6	0.7	0.8	1.0
Power Rating (Maximum)	0.6	0.6	0.5	0.5	0.4	0.3	0.3

Contact factory for other waveguide bands and specifications.

HOW TO ORDER:

Specify Model Number **CPS - WG LF HF IL - XX**

Waveguide Size $\xrightarrow{\text{WG}}$ Insertion Loss $\xleftarrow{\text{IL}}$

Low End Frequency $\xrightarrow{\text{LF}}$ High End Frequency $\xleftarrow{\text{HF}}$

← To be determined by the factory

Example: To order a full band WR-15 level setting phase shifter with 1.0 dB maximum attenuation level, specify CPS – 15FF10.

CERNEX RESERVE THE RIGHT TO CHANGE TO SPECIFICATIONS WITHOUT NOTICE