

# Variable Phase Shifter

RLC Electronics' Model PSM-10 is a variable phase shifter constructed using high speed operational amplifiers. A full 360 degrees of phase shift is accomplished over a +/-10% bandwidth using 2 manual adjustment controls of 0-180 degrees each. Input and output impedance is 50 ohms. A 180 degree version with a single control is also available. Different frequency ranges or special packages are available on request.



## Specifications

PSM-10<sup>-1-2</sup>

Model Number	Frequency Range (MHz)	Phase Shift (Min)	VSWR (Max)	Insertion Loss (Max)	Control Shafts
PSM-10-180-	9-11	180 degrees	1:25:1	1.5dB	1
PSM-10-360-	9-11	360 degrees	1.25:1	3.0dB	2

**Power Rating:** +13dBm max

**Supply Voltage:** +/-5 to +/-15 volts

**Temperature Range:** -40 to +85 degree C

**Impedance:** 50 ohms

**Phase Control:** Single turn shaft, continuously variable

**Connectors, RF:** SMA, TNC, BNC, female

**Connector, Power:** Feed through solder lugs

**To designate the PRODUCT desired use:**

1: "180" for a single control, 0-180 degree unit  
for a dual control, 0-360 degree unit

2: "R" for SMA, "T" for TNC, "B" for BNC connector type

Example: PSM-10-180-R is a 0-180 degree phase shifter with SMA female connectors.

## Outline Drawing

