

CONTINUOUSLY VARIABLE PHASE TRIMMER (MECHANICAL) 1–18 GHz

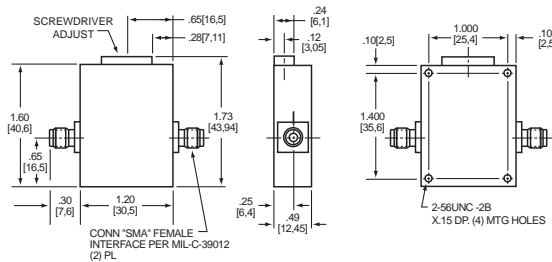
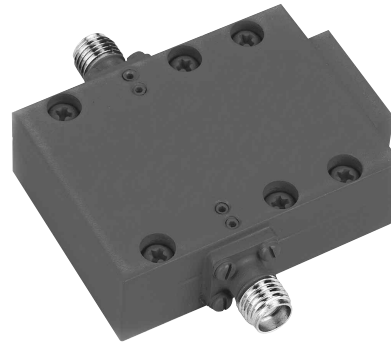
MODEL PV-18

GENERAL INFORMATION

A phase trimmer continuously changes the phase of a microwave signal by mechanically varying an adjustment screw.

GENERAL SPECIFICATIONS

Frequency Coverage:	1 to 18 GHz
VSWR:	1.5:1 maximum (1-8 GHz) 1.9:1 maximum (8-18 GHz)
Phase Shift:	20° minimum/25° typ. at 1 GHz, 360° minimum/450° typ. at 18 GHz (at maximum adjustment)
Phase Adjustment:	The phase is continuously adjustable with a 12 to 15 turn screw. The large number of turns allows for accurate phase settings.
Insertion Loss:	1 dB maximum (1-8 GHz) 1.5 dB maximum (8-18 GHz)
RF Power:	3 WCW and 3KW Peak maximum operational
Operating Temperature:	–55°C to +85°C
Connectors:	SMA female
Monotonicity:	Guaranteed



RUGGEDIZED SMA CONNECTORS

PHASE SHIFTER (MECHANICAL) DC 7 GHz – 10 WATTS

SERIES PV-980

GENERAL INFORMATION

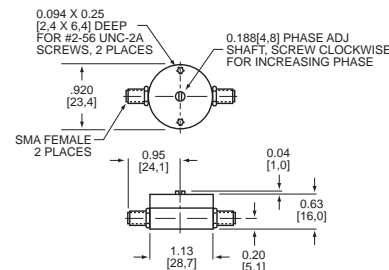
Self Locking: Internal mechanism eliminates the need for a locking nut. Ideal for phase trimming in densely packaged systems with minimum accessibility.

Linear: Nominally linear phase over the frequency range.

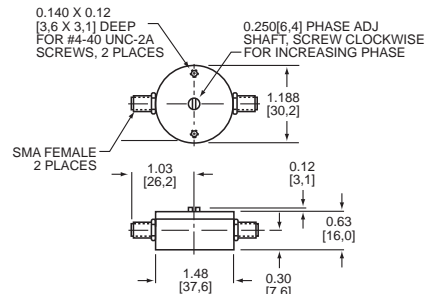
Optimized for Wireless OEM Applications.

GENERAL SPECIFICATIONS

Nominal Impedance:	50Ω
Frequency Coverage:	
Model PV-980-1 & PV-980-2:	DC to 3.0 GHz
Model PV-980-3:	DC to 7.0 GHz
Incremental Phase Shift:	
Model PV-980-1:	140° Minimum @ 3.0 GHz
Model PV-980-2:	200° Minimum @ 3.0 GHz
Model PV-980-3:	170° Minimum @ 7.0 GHz 85° Minimum @ 3.0 GHz
Insertion Phase:	
Model PV-980-1:	560° (Typical) @ 3.0 GHz
Model PV-980-2:	780° (Typical) @ 3.0 GHz
Model PV-980-3:	700° (Typical) @ 7.0 GHz
Phase vs Frequency:	Nominally linear response
Maximum SWR:	1.35
Power Rating:	10 watts average
Temperature Range:	
Operating:	–50°C to 85°C
Storage:	–50°C to 125°C
Connectors:	SMA female



Model PV-980-3



Model PV-980-1 & PV-980-2

Model	Frequency (GHz)		
	1.5	3.0	7.0
PV-980-1	0.50 dB	0.90 dB	—
PV-980-2	0.30 dB	0.45 dB	—
PV-980-3	0.50 dB	0.50 dB	0.50 dB

KEY: Inches[Millimeters] .XX ±.03 .XXX ±.010 [.X ±0.8 .XX ±0.25]



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