

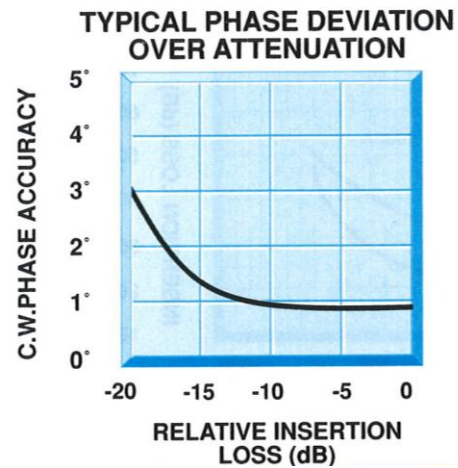
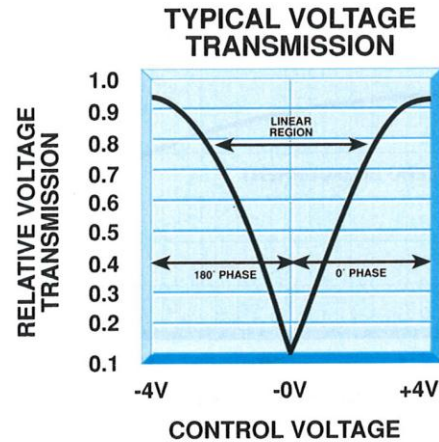
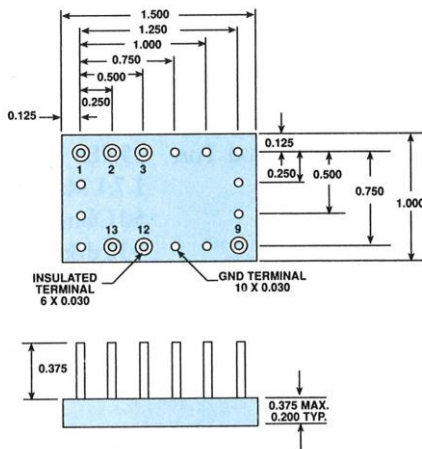
CPM-9100 SERIES COMPLEX PHASOR MODULATORS

TECHNICAL FEATURE

PERFORMANCE

Frequency Range	50 to 500 MHz
Insertion Loss	
Saturated Region	14.0 dB max
Linear Region	16.5 dB max
Phase Unbalance.....	$\pm 5^\circ$
Amplitude Balance	± 1.0 dB
VSWR.....	1.8:1 max
Amplitude Control Linearity.....	± 1.0 dB
Input 1 dB Compression Point.....	+12 min, +15 typ dBm
Third Order Intercept.....	+17 min, +20 typ dBm
Max Input Power	+20 dBm
Attenuation Range	40 dB
DC Offset.....	± 0.075 VDC
Control Port Freq. Range.....	3500 kHz
Control Port Voltage Range.....	± 8 VDC
Control Current (MADC)	2 min, 5 typ
Bias Voltage (VDC).....	9.9 min, 10.0 typ, 10.1 max
Bias Tracking (MVDC)	± 10
Bias Current (MADC).....	10 typ, 15 max
Operating Temperature Range	-54 to +85° C

MECHANICAL OUTLINE



FUNCTIONAL SCHEMATIC

