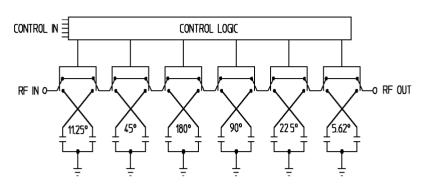
10 to 250 MHz / Low RF Transients / Fast Switching Time / Monotonic Output / BNC or SMA

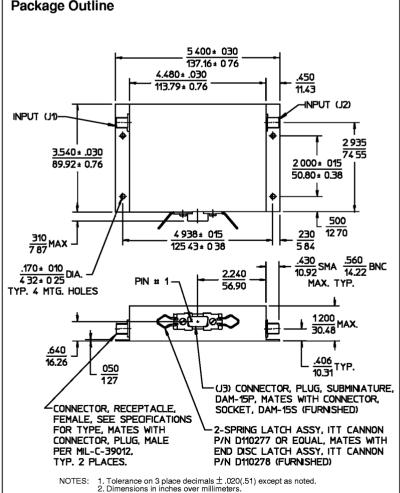
CONTROL INPUTS





PRINCIPAL SPECIFICATIONS							
Calibration Frequency f _{c,} MHz	SMA Model Number	BNC Model Number					
10 - 250	PTM-64A-**B	PTB-64 A -**B					
For complete model num	her replace ** with desired calibr	ation frequency to in MHz					

Package Outline



GENERAL SPECIFICATIONS

Usable Bandwidth: $f_c \pm 2.5\%$

Phase Shift Range:: 0° to 360° nom.@fc

Least Significant Bit: 5.6° Most Significant Bit: 180°

Accuracy @ fc: 1/2 of LSB typ.

(guaranteed monotonic)

Impedance: 50 Ω nom. VSWR: 1.35:1 max. 3 dB nom. Insertion Loss, IL: IL, Variation vs. Cont: ±0.5 dB @ fc Input Power: +10 dBm max. Control Input: 6 Bit TTL Logic Sense: Positive

Supply Power: +5 VDC @ 350 mA nom.

+15 VDC @ 100 mA nom.

Settling Time: 100 ns typ., 250 ns max. Weight, nominal: 10 oz (285 g) -- 55° to +85°C Operating Temp:

Phase Shift Increments								
Bit	1 (LSB)	2	3	4	5	6	MSB)	
Phase	5.5°	11.2°	22.5°	45.0°	90.0°		180°	

General Notes:

- 1. PTM-64A series phase shifters are controlled directly from TTL logic circuits and are available for center frequencies from 10 to 250 MHz.
- 2. Their lumped element design is inherently narrow band since it utilizes a quadrature hybrid in each switch section. However, this approach provides much smoother phase transitions than a switched cable design since the switching does not take place in the RF signal path. This feature makes the PTM-64A series preferable for applications where minimizing switching transients is important.
- 3. Accuracy and temperature stability of each phase shift section allows for a resolution of 5.6° , but as total phase shift increases, overall accuracy deteriorates due to cumulative internal reflections.