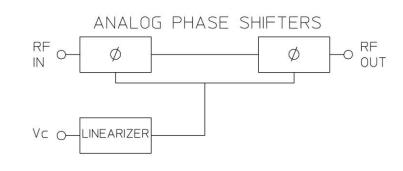
PLB & PLM SERIES – PHASE SHIFTERS

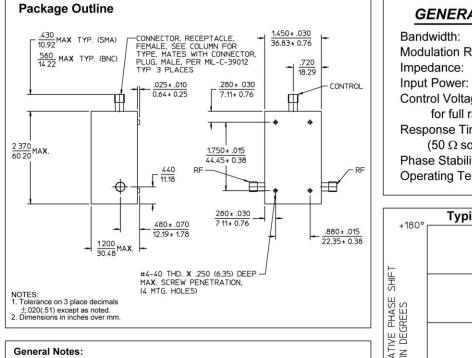
TECHNICAL FEATURE

FEATURES

- 10 to 500 MHz
- 0° to 180° Coverage
- 10% Bandwdith
- Voltage Controlled
- SMA or BNC



PRINCIPAL SPECIFICATIONS									
SMA Model Number	BNC Model Number	Center Freq, fo, Range, MHz	Phase Shift @ fo	Linearity @ fo	Percent AM	Insertion Loss, dB, Max.	Fø VSWR Max.	Weight oz (g)	
PLM-3B-***B	PLB-3B-***B	10 to 500	180°	5%	5%	2	1.5:1	3.4 (95)	
For complete Model Number replace *** with desired center frequency, fo in MHz.									



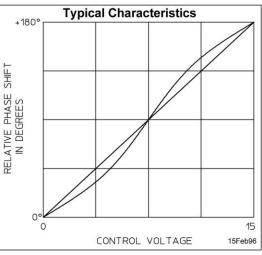
1. The PLB & PLM series use a control voltage of 0 to +15V to vary relative phase across a 180° range.

2. Each phase shifter element employs quadrature hybrids with matched pairs of varactor tuned LC networks acting as sliding short circuits on the outputs. The electrical length of this short circuit controls the delay in the reflected signal appearing at the isolated port of each quadrature hybrid.

3. These units are suitable for high reliability and space applications.

GENERAL SPECIFICATIONS

Bandwidth:	10% of fo				
Modulation Rate:	1% of fo nom.				
Impedance:	50 Ω nom.				
Input Power:	– 10 dBm max.				
Control Voltage					
for full range:	0 to +15 V max.				
Response Time:					
(50 Ω source):	50 μs max.				
Phase Stability, typical:	0.2° per °C				
Operating Temperature:	– 55° to +85°C				



Crane Aerospace & Electronics

Microwave Solutions - Merrimac Industries

41 Fairfield Place, West Caldwell, NJ 07006 + 1.973.575.1300 ext. 1309 • <u>mw@crane-eg.com</u>

www.craneae.com/mw

PLMPLB.doc. This revision supersedes all previous releases. All technical information is believed to be accurate, but no responsibility is assumed for errors. We reserve the right to make changes in products or specifications without notice. Copyright © 2013 Crane Electronics, Inc. All rights reserved.

