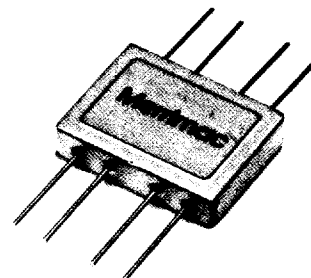
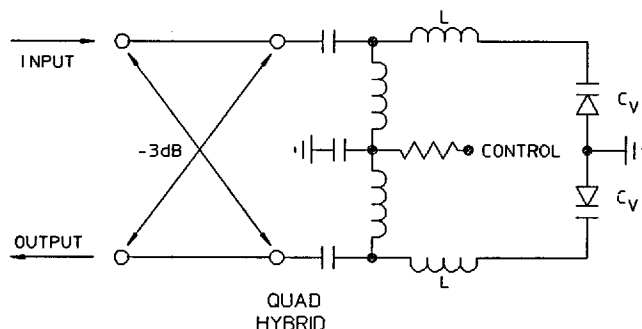




PEF-03A series

0° to -180° PHASE SHIFTERS
L-Band, Voltage Variable



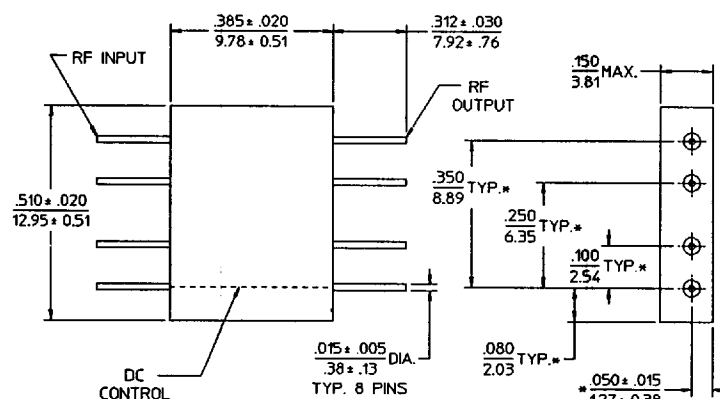
- Catalog and Custom from 500 MHz to 2 GHz
- Continuous 0 to 180° Adjustment
- Low Insertion Loss
- Space saving hermetic design.
- Low Profile, High Reliability Package

The PEF series of high frequency, electronically controlled phase shifters combine the latest microstrip and lumped element technologies to provide very high performance in a space saving package. With a center frequency coverage to 2 GHz, these units extend the frequency range of the long established PSEF series which cover the 10 to 500 MHz band.

Electronic phase shifters find frequent application in systems requiring automatic phase control, closed loop feedback networks and steering of electronically scanned antennas.

MERRIMAC Phase Shifters are designed for high reliability, and can be supplied screened to meet military and space applications.

A-Size Package Outline



- NOTES:
1. Tolerance on 3 place decimals $\pm 0.010(25)$ except as noted.
 2. Dimensions in inches over millimeters.
 3. Dimensions marked with * apply only at body.
 4. All unmarked pins are case ground.

Model Number	Center Frequency, f_0	Bandwidth
PEF-03A-1000	1000 MHz	100 MHz
PEF-03A-***B	500 - 2000 MHz	10% of f_0

For complete Model Number replace *** with desired Center Frequency, f_0 in MHz.

COMMON SPECIFICATIONS

RF Characteristics

Bandwidth:	10% min.
Phase Shift Range:	0 to 180° min.
Impedance:	50 Ω nom.
VSWR:	2.0:1 max.
RF Input Level:	0 dBm max.
Insertion Loss:	
1000 - 2000	3 dB max.
500 - 1000	2 dB max.

Control Characteristics

Control Voltage	0 to +30VDC
Modulation Rate:	DC to 1% f_0

General Characteristics

Phase Stability:	0.2° per °C
Operating Temperature:	-55° to +85°C
Weight, nominal:	0.09 oz. (2.5 g)

AVAILABLE SPECIFICATIONS

Lower Frequencies:	Down to 10 MHz in PSEF series only.
RF Bandwidth:	Up to 20% of f_0
Control:	Negative polarity

Contact MERRIMAC for further details. (12/91)