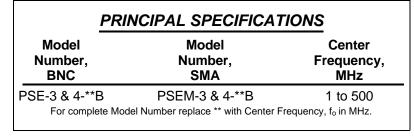
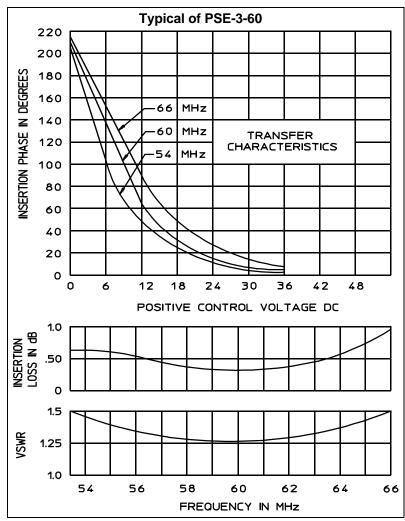
## **PSE & PSEM Series**

# **PHASE SHIFTERS**

1 to 500 MHz / 0' to 180' and 0' to 360' / 10% Bandwidth / Voltage Variable / BNC & SMA







### **GENERAL SPECIFICATIONS**

### PSE/PSEM-3

Phase Shift Range:	180° min. @ fo
Insertion Loss:	1.5 dB max.
Bandwidth:	10% of f <sub>o</sub>
Impedance:	50 $\Omega$ nom.
VSWR:	1.5:1 max.
Modulation Rate:	1% of fo max.
Input Power:	0 dBm max.*
Control Voltage:	0.5 to +15V typ.**
Weight, nominal:	3.4 oz (95 g)
Phase Stability:	0.1° per °C typ.
Operating Temp:	- 55° to + 85°C

#### **PSE/PSEM-4**

Phase Shift Range:	360° min. @ fo	
Insertion Loss:	2.0 dB max.	
Bandwidth:	10% of f <sub>o</sub>	
Impedance:	50 $\Omega$ nom.	
VSWR:	1.5:1 max.	
Modulation Rate:	1% of f <sub>o</sub> max.	
Input Power:	0 dBm max.*	
Control Voltage:	0.5 to +15V typ**	
Weight, nominal:	4 oz (112 g)	
Phase Stability:	0.2° per °C typ.	
Operating Temp:	– 55° to + 85°C	
<ul> <li>*For freq ≥10 MHz, unit may be operated at +10 dBm in reduced control range of 1.5 - 15 V (+30 V no damage).</li> <li>** Voltage required for full control range. Maximum con- trol voltage is 30 V.</li> </ul>		

#### **General Notes:**

1. The PSE and PSEM series of phase shifters provide continuous voltage controlled phase adjustment with the application of 0 to +15V. On PSE/PSEM-3 models the full range is 180°. On PSE/PSEM-4 models the range is extended to 360° by cascading two similar 180° phase shifters in one package. All models may be supplied with optional linearized transfer characteristics.

2. Merrimac phase shifters are designed for high reliability and can be supplied screened to meet specific military and space applications.

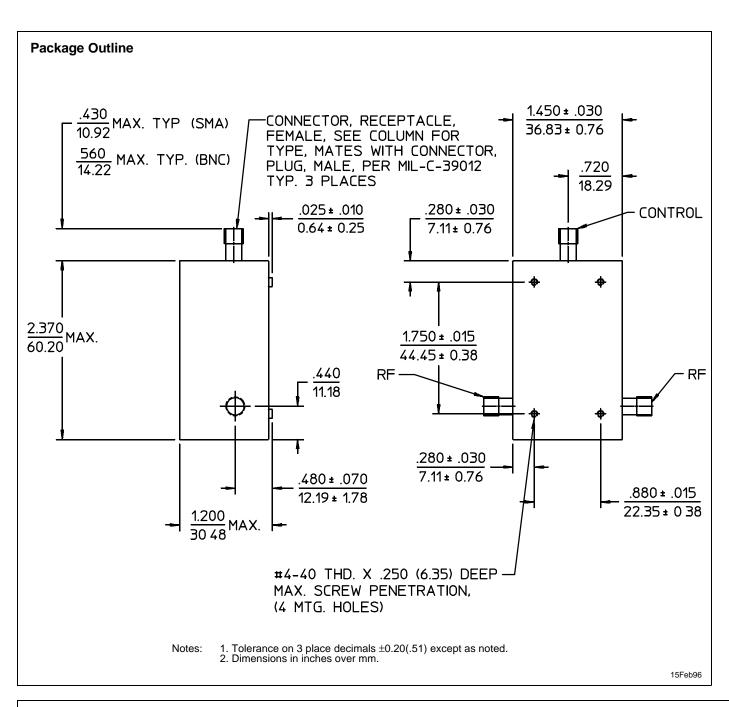
For further information contact MERRIM AC /41 Fairfield PL,W est Cally ell,NJ,07006 / 973-575-1300 /FAX 973-575-0531

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