ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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Find the *Crane / Merrimac PSE-3-1B* at our website: *Click HERE*

PSE & PSEM Series PHASE SHIFTERS

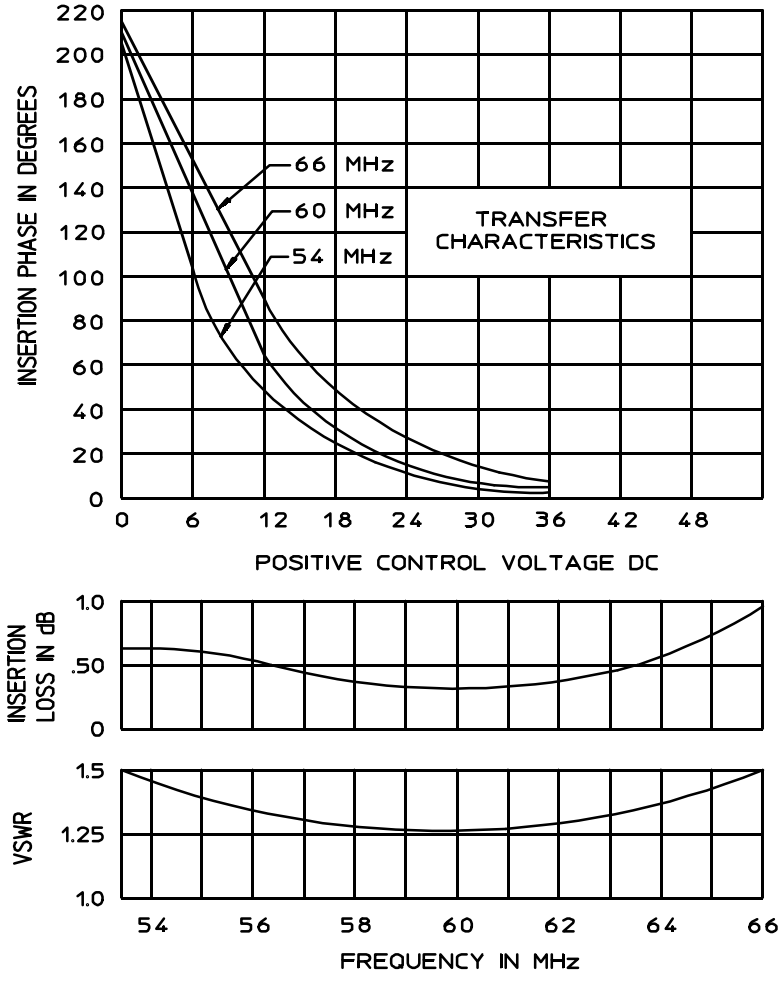
1 to 500 MHz / 0° to 180° and 0° to 360° / 10% Bandwidth / Voltage Variable / BNC & SMA

PRINCIPAL SPECIFICATIONS

Model Number, BNC	Model Number, SMA	Center Frequency, MHz
PSE-3 & 4-**B	PSEM-3 & 4-**B	1 to 500

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

Typical of PSE-3-60



GENERAL SPECIFICATIONS

PSE/PSEM-3

Phase Shift Range:	180° min. @ f_o
Insertion Loss:	1.5 dB max.
Bandwidth:	10% of f_o
Impedance:	50 Ω nom.
VSWR:	1.5:1 max.
Modulation Rate:	1% of f_o 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. @ f_o
Insertion Loss:	2.0 dB max.
Bandwidth:	10% of f_o
Impedance:	50 Ω nom.
VSWR:	1.5:1 max.
Modulation Rate:	1% of f_o 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

*For freq ≥10 MHz, unit may be operated at +10 dBm in reduced control range of 1.5 - 15 V (+30 V no damage).
** Voltage required for full control range. Maximum control voltage is 30 V.

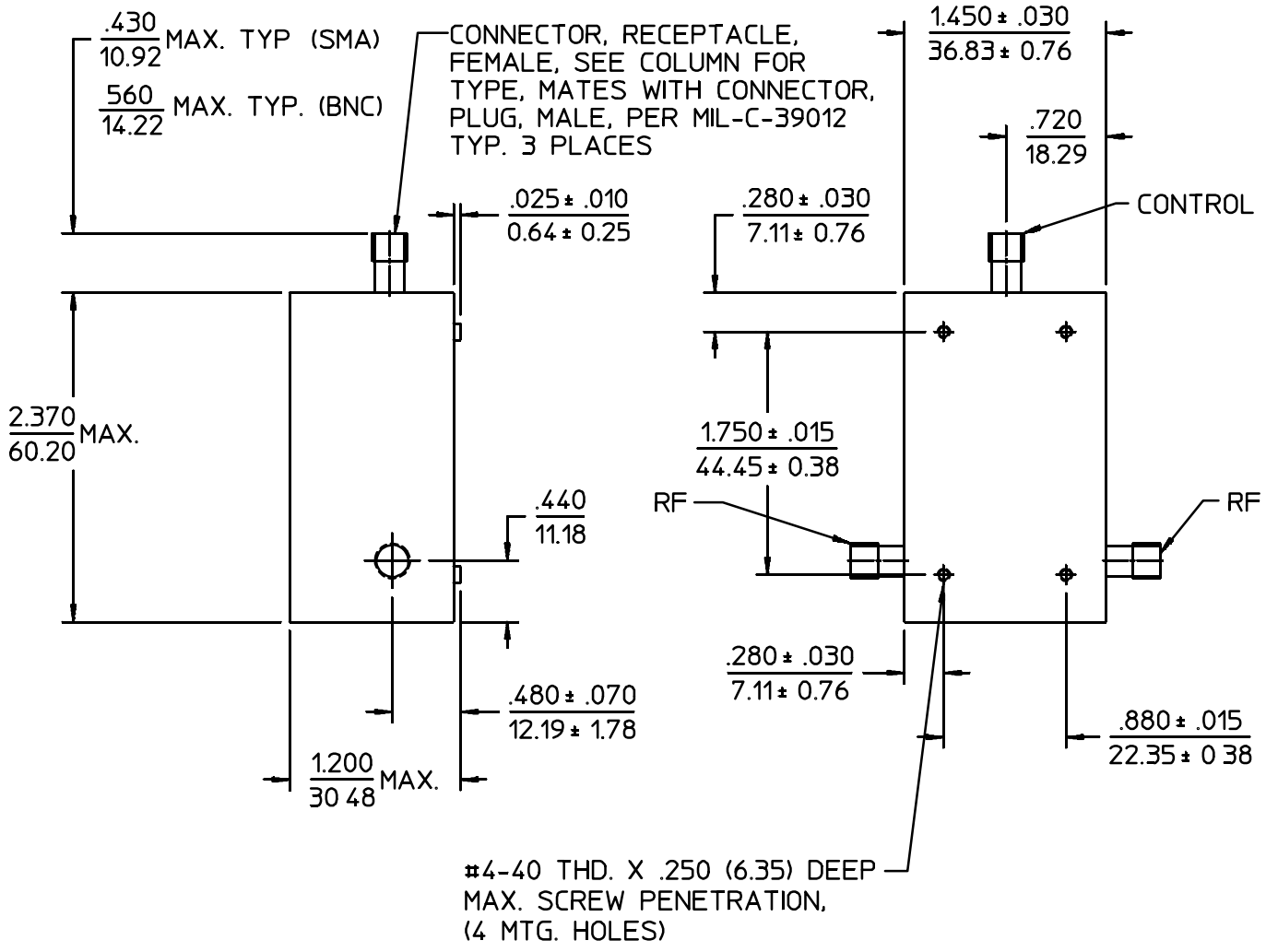
General Notes:

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.

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For further information contact *MERRIMAC / 41 Fairfield Pl, West Caldwell, NJ, 07006 / 973-575-1300 / FAX 973-575-0531*

Package Outline



Notes: 1. Tolerance on 3 place decimals ±0.20(.51) except as noted.
2. Dimensions in inches over mm.

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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We're here to make your life easier. How can we help you today?

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