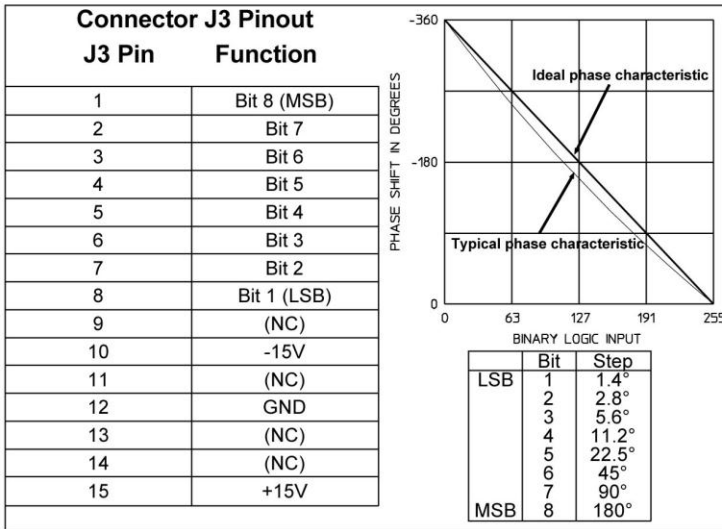


PWM-84C SERIES – PHASE SHIFTER, DIGITAL

TECHNICAL FEATURE

FEATURES

- 30 to 2500 MHz
- 1.4° Resolution
- 8-bit TTL Input
- Monotonic
- SMA Connectors



PRINCIPAL SPECIFICATIONS

| Model Number | Center Frequency, f _c , MHz | Operating Bandwidth |
|---------------|--|-----------------------|
| PWM-84C-***B | 30 - 200 | 30% of f _o |
| PWM-84C-****B | 200 - 2500 | 10% of f _o |

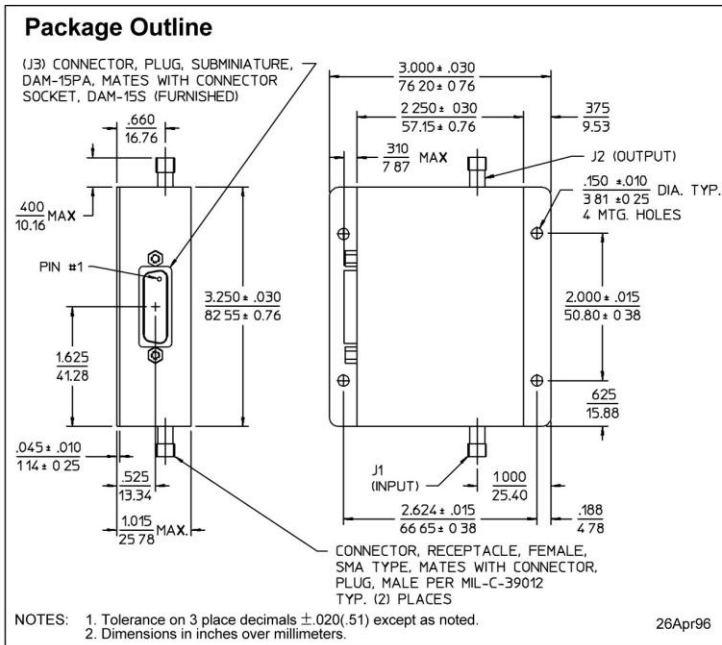
For complete Model Number replace *** with desired center frequency in MHz

GENERAL SPECIFICATIONS

Phase Characteristics:
 Minimum Shift: 0° to 360° in 255 steps @ f_c
 Phase Accuracy, typ: ±15° (±30° above 1 GHz) (Guaranteed Monotonic)

RF Characteristics:
 Impedance: 50 Ω nom.
 VSWR: 2.0:1 max.
 Insertion Loss: 2 dB nom, 3 dB max. (3 dB nom, 4.5 dB max above 1 GHz)
 Loss Var. vs. Phase: 1 dB (1.5 dB above 1 GHz)
 Max. Input Power: +10 dBm

Control Characteristics:
 Control Input : 8 Bit TTL
 Settling Time: 3 μs max.
 Supply Power: ±15 VDC @ 100 mA max.
 Weight, nominal: 4.5 oz (125 g)
 Operating Temp.: -55° to +85°C



General Notes:

1. Phase Shifters in the PWM-84C series provide a minimum of 360° phase shift in 8 binary increments (255 steps) of approximately 1.4° each. Phase shift is produced using a series of frequency independent analog phase shifters which are driven by an 8-bit D/A converter. This method, unlike conventional switched cable designs is guaranteed to be monotonic even at higher frequencies.
2. The monotonic feature of this design is advantageous when used for control applications in closed loop systems.

