

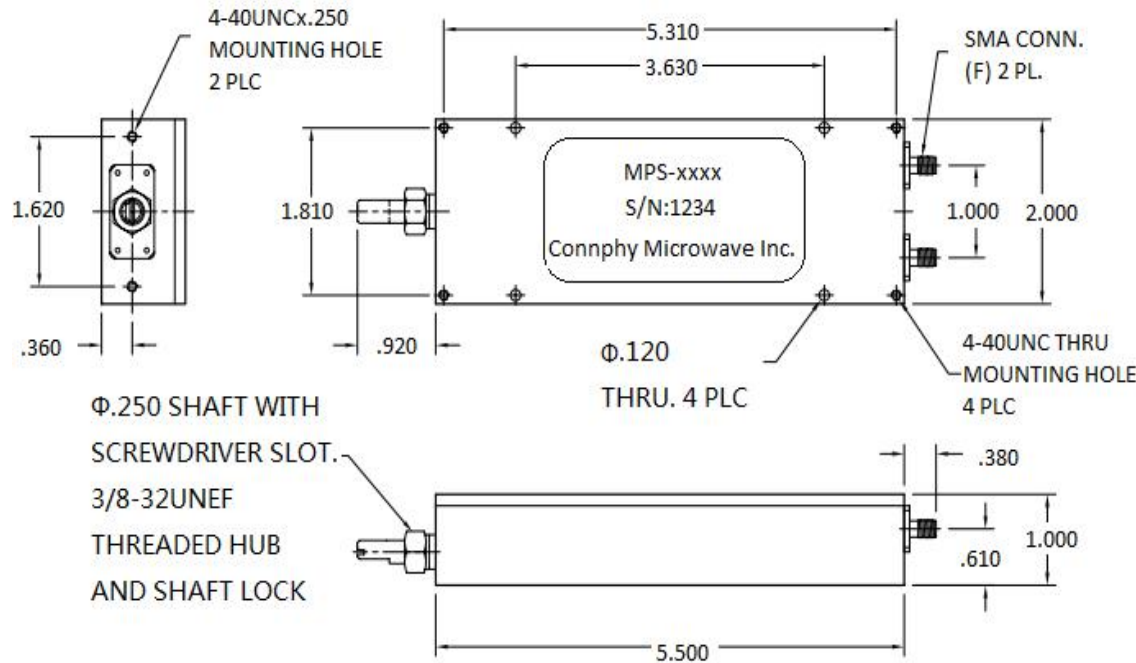
**MPS-DC12.6G-60-S** 0 - 60°/GHz Models achieve 60° minimum of phase shift @ 1GHz, actual phase shift varies linearly, corresponding to the Frequency unit is operating at.

Example:

If operated @ 2GHz, the unit can achieve 120° phase shift min.,

If operated @ 4GHz operation, the unit can achieve 240° phase shift min., and so on.

### Mechanical Outline(Inch):



### Electrical Specifications:


|                            |                                       |
|----------------------------|---------------------------------------|
| Frequency range:           | DC to 12.6 G                          |
| Adjustable Phase shift:    | 0 to 60°/GHz                          |
| Insertion loss:            | 0.7 dB Max                            |
| VSWR:                      | 1.5:1 Max                             |
| Power:                     | 100 W average, 3kW peak               |
| Connectors:                | SMA                                   |
| Adjustable Group Delay:    | 0 to 0.169 ns                         |
| Insertion Phase @ 1.0 GHz: | 320° (min setting)                    |
| Settable:                  | One rotation at 1.0GHz is approx 3.5° |
| Temperature Stability:     | 0.025°/DC°/GHz                        |

### Mechanical Specification:

|             |   |
|-------------|---|
| Size:       | 5.5" x 2.2" x 1.0"  |
| Body:       | Aluminum  |
| Connectors: | Stainless Steel   |
| Control:    | 0.25" dia. multi-turn Non-translating shaft, with approx. 18 turns from min to max phase adjust |

### Environmental Ratings:

|                    |  |
|--------------------|--|
| Temperature:       | -25°C to +71 °C Operating<br>-65 °C to +100 °C Non-Operating |
| Vibration:         | MIL-STD-202F, Method 204D Cond. B                            |
| Altitude:          | MIL-STD-202F, Method 105C Cond. B                            |
| Temperature Cycle: | MIL-STD-202F, Method 107D Cond. A                            |

| Manual Phase Shifter<br>MPS-DC12.6G-60-S |                   |                      |   |
|--|-------------------|----------------------|---|
| DRAWN:                                   | DWG NO.:          | REV CODE:<br>Rev.1.0 | <br><a href="http://www.connphy.com">www.connphy.com</a><br><a href="mailto:sales@connphy.com">sales@connphy.com</a> |
| CHECKRD:                                 | DATE:<br>12/09/15 | SHEET :<br>1 OF 1    |   |
| ISSUED:                                  | SIZE:<br>A        | SCALE :<br>N / A     |   |
|  |                   |                      | Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.   |