



6602,3,4 SERIES
6702,3,4 SERIES
6802,3,4 SERIES

FEATURES

- Type N Connectors Standard
- Options from DC to 8 GHz
- High Power, Trombone Style Coaxial Structure
- Military Grade Materials and Processing
- -40 to +125° C Operating Temperature Range

SPECIFICATIONS

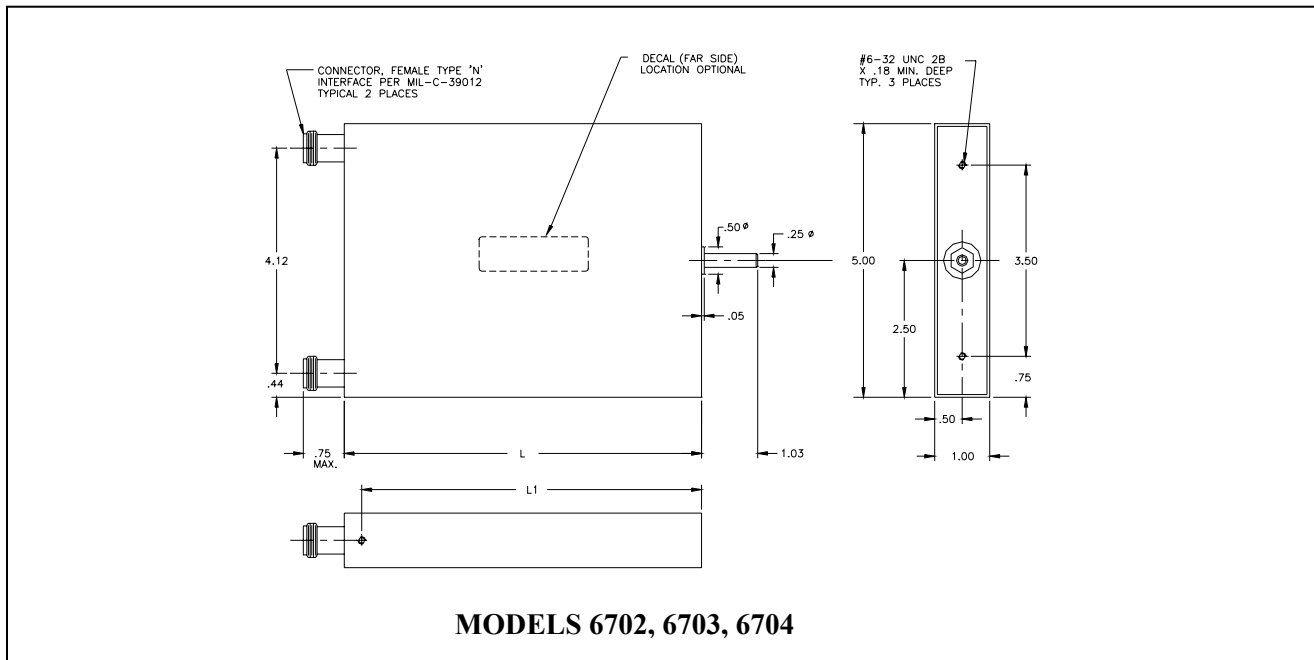
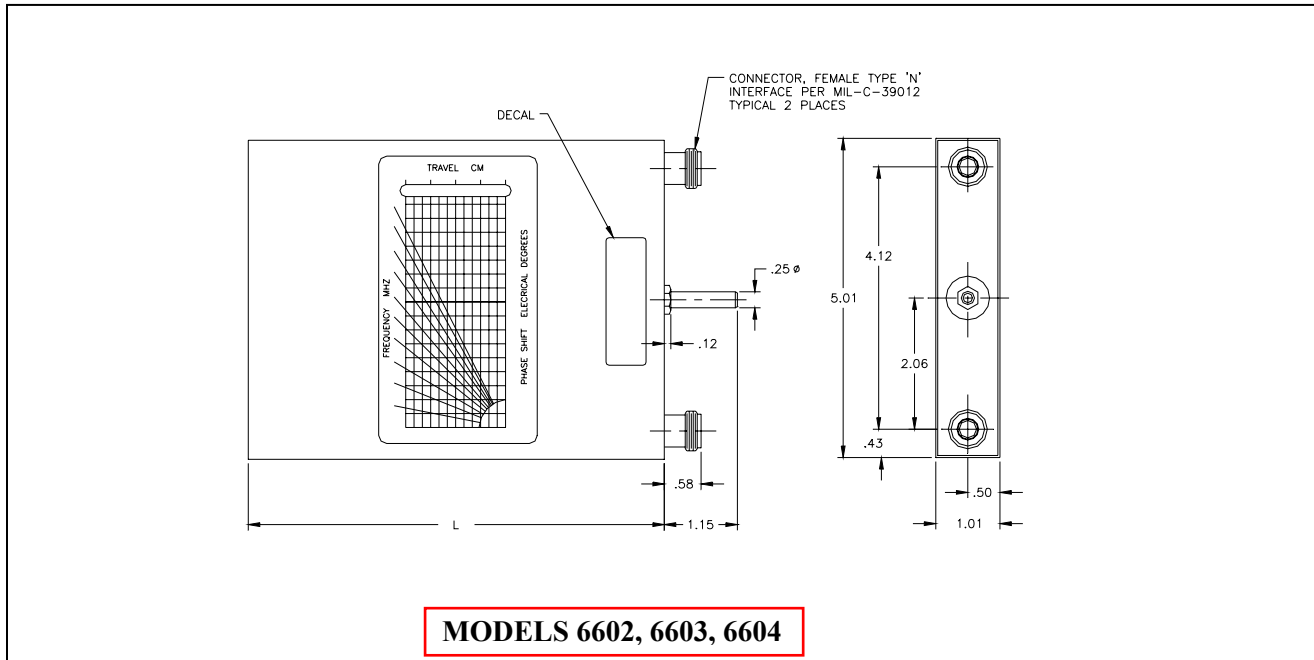
| Model | 6602 | 6702 | 6802 | 6603 | 6703 | 6803 | 6604 | 6704 | 6804 |
|------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency Range (GHz) | DC-2 | DC-2 | DC-2 | DC-4 | DC-4 | DC-4 | DC-8 | DC-8 | DC-8 |
| Phase Shift, min (°/GHz) | 290 | 290 | 290 | 190 | 190 | 190 | 95 | 95 | 95 |
| Phase Shift, min (°/GHz/Shaft Turn) | 5.7 | 5.7 | 5.7 | 5.7 | 3.8 | 5.7 | 1.9 | 1.9 | 1.9 |
| Insertion Phase, Nominal @ Min Phase Setting (°/GHz) | 950 | 950 | 980 | 790 | 700 | 820 | 450 | 450 | 480 |
| Number of Turns, min | 50 | 50 | 48 | 33 | 50 | 32 | 50 | 50 | 48 |
| VSWR max | 1.35 | 1.35 | 1.35 | 1.60 | 1.60 | 1.60 | 2.00 | 2.00 | 2.00 |
| Insertion Loss, max (dB) | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.0 | 1.0 | 1.0 |
| Power | | | | | | | | | |
| Average (Watts) | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 |
| Peak (Watts) | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Time Delay, Nominal @ Min Phase Setting (nsec) | 2.6 | 2.6 | 2.7 | 2.2 | 1.9 | 2.3 | 1.2 | 1.2 | 1.3 |
| Length (L) | | | | | | | | | |
| Inches | 6.55 | 9.55 | 6.35 | 4.93 | 6.94 | 4.73 | 6.55 | 9.55 | 6.35 |
| Centimeters | 16,64 | 24,26 | 16,13 | 12,52 | 17,63 | 12,01 | 16,64 | 24,26 | 16,13 |
| Length (L1) | | | | | | | | | |
| Inches | --- | 9.17 | --- | --- | 6.56 | --- | --- | 9.17 | --- |
| Centimeters | --- | 23,29 | --- | --- | 16,66 | --- | --- | 23,29 | --- |
| Weight | | | | | | | | | |
| Ounces | 33 | 45 | 38 | 27 | 42 | 32 | 42 | 46 | 40 |
| Grams | 934 | 1274 | 1075 | 764 | 1188 | 906 | 1189 | 1302 | 1132 |

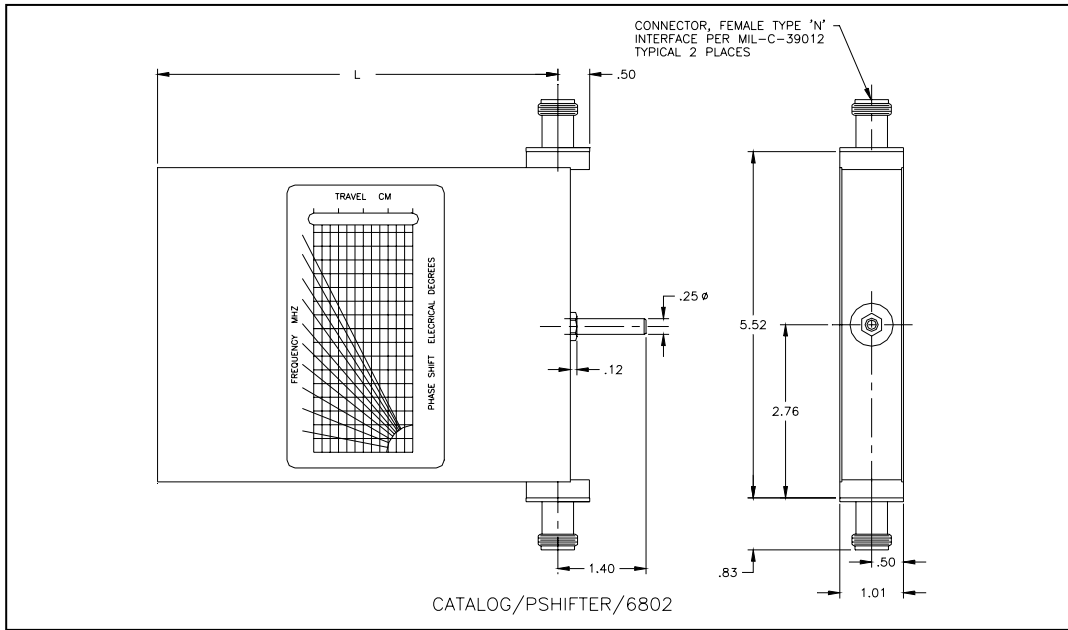
NOTES:

1. 1 Degree per GHz of Phase Shift equals 2.78 picoseconds of time delay.
2. Average and Peak Power are given at ambient temperature and altitude with Type N Connectors. Power is further limited by the power threshold level of selected connector style.



OUTLINE DRAWINGS





MODELS 6802, 6803, 6804

ORDERING INFORMATION

DRIVE SHAFT AND CONNECTOR OPTIONS:

1. Only the following standard control options are available. The base model is available without additional options.
2. Add suffix as designated below to the ordering model number.

| MODEL # PLUS | DESCRIPTION |
|--------------|--------------------------------------------------------------------|
| -2 | Turns Counter With Built In Shaft Lock |
| -3 | SMA Type RF Connectors |
| -5 | Control Knob with No Locking Feature |
| -15 | Shaft Lock With Control Knob |
| -135 | Shaft Lock With Control Knob and SMA Type RF Connectors |
| -23 | Turns Counter With Built In Shaft Lock and SMA Type RF Connectors. |

| (-1) SHAFT LOCK | (-2) TURNS COUNTER W/ SHAFT LOCK | (-5) CONTROL KNOB |
|-----------------|----------------------------------|-----------------------|
| | | <p>D= 0.9" L=1.0"</p> |

MISCELLANEOUS:

1. Spectrum Microwave "Standard Warranty and Order Terms and Conditions" apply to all orders.
2. All specifications subject to change without notice.
3. Check "Ordering and Availability Listing" for delivery and ordering information.
4. Contact our local Manufacturers Representative for pricing.

Specification Revision - 070710

