



**6709 SERIES**

**FEATURES**

- Type SMA Connectors Standard
- Options from DC to 1GHz
- High Performance, Troughline Style Structure
- Military Grade Materials and Processing
- -40 to + 125° C Operating Temperature Range

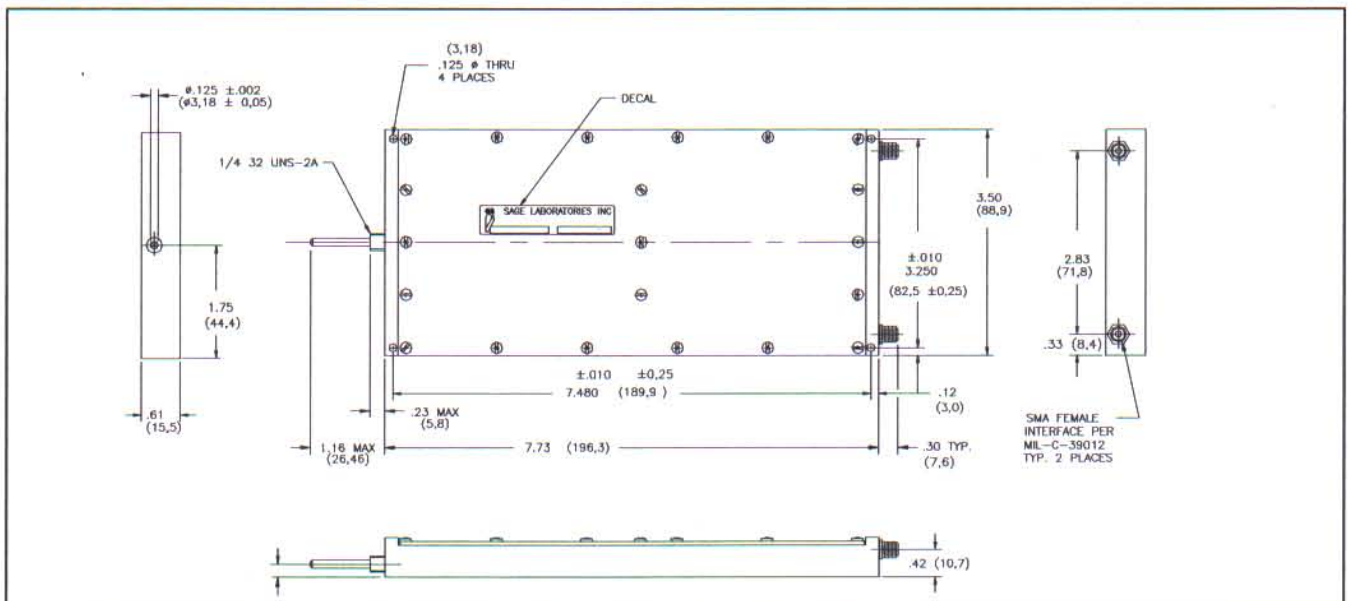
**SPECIFICATIONS**

| Model  | 6709   |
|--|--------|
| Frequency Range (GHz)                            | DC – 1 |
| Phase Shift, min (°/GHz)                         | 940    |
| Phase Shift, min (°/GHz/Shaft Turn)              | 9.7    |
| Insertion Phase Nom at Min Phase Setting (°/GHz) | 1040   |
| Number of Turns, min                             | 96     |
| VSWR max   | 1.50   |
| Insertion Loss, max (dB)                         | 0.7    |
| Power  |        |
| Average (Watts)                                  | 100    |
| Peak (Watts)                                     | 1000   |
| Time Delay, nom @ Min Phase Setting (nsec)       | 2.9    |
| Weight   |        |
| Ounces   | 14.9   |
| Grams  | 422    |

**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 SMA Connectors. See standard power derating curves for phase Shifters. Power is further limited by the power threshold level of connector style.

**OUTLINE DRAWING**



**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                            |
|--------------|--|
| -1           | Shaft Lock                             |
| -2           | Turns Counter With Built In Shaft Lock |
| -4           | Screw Driver Slot                      |
| -5           | Control Knob                           |
| -14          | Shaft Lock With Screw Driver Slot      |
| -15          | Shaft Lock With Control Knob           |

| (-1) SHAFT LOCK | (-2) TURNS COUNTER W/ SHAFT LOCK | (-5) CONTROL KNOB  |
|-----------------|----------------------------------|--------------------|
|                 |                                  | <br>D= 0.5" L=0.65 |