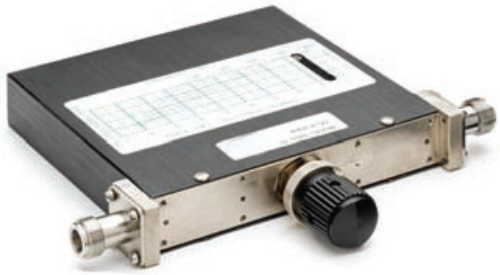
PHASE SHIFTERS

High-Power, Trombone

- Type N and SMA connectors
- Military-grade materials and processing
- Power: Average 350 watts / Peak 2500 watts

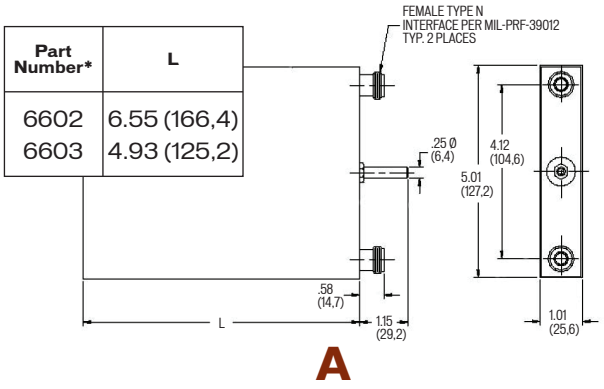


Part Number*	Frequency (GHz)	Phase Shift Min. (°/GHz)	Phase Shift Min. (°/GHz/Shaft Turn)	Insertion Phase Nom. @ Min. Phase Setting (°/GHz)	VSWR Max.	Insertion Loss Max. (dB)	Time Delay Nom. @ Min. Phase Setting (nsec.)	Outline
6602	DC - 2	290	5.7	950	1.35:1	0.5	2.6	A
6602-15	DC - 2	290	5.7	950	1.35:1	0.5	2.6	A
6702-15	DC - 2	290	5.7	950	1.35:1	0.5	2.6	B
6702-23	DC - 2	290	5.7	950	1.35:1	0.5	2.6	B
6802-15	DC - 2	290	5.7	980	1.35:1	0.5	2.7	C
6603-15	DC - 4	190	5.7	790	1.60:1	0.5	2.2	A

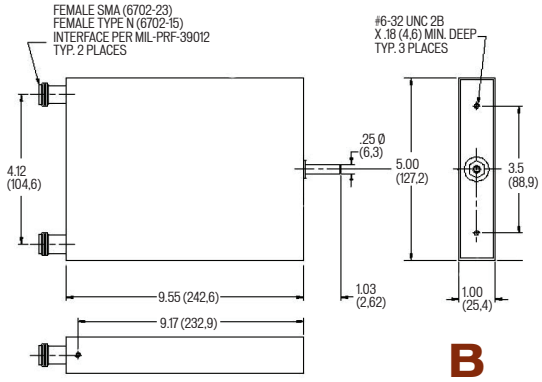
***Base model sold without additional options.**
-15 Shaft lock with control knob.
-23 Turns counter with built-in shaft lock and SMA connectors.

Notes:
1. 1° 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 standard connectors. Power is further limited by the power threshold of connector style.

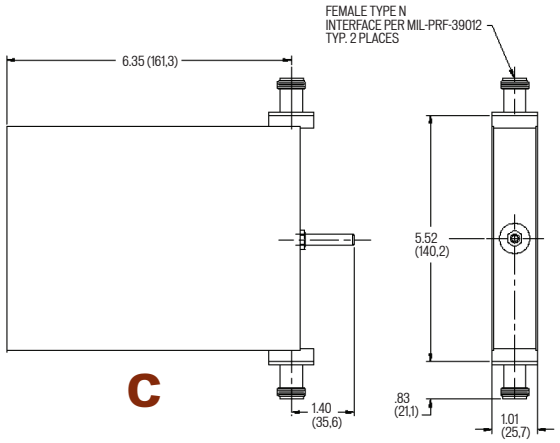
Part Number*	L
6602	6.55 (166,4)
6603	4.93 (125,2)



A

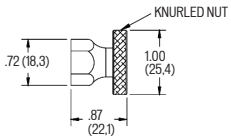


B

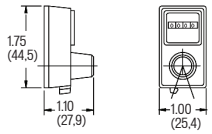


C

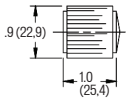
(-1) Shaft Lock



(-2) Turns Counter with Shaft Lock



(-5) Control Knob

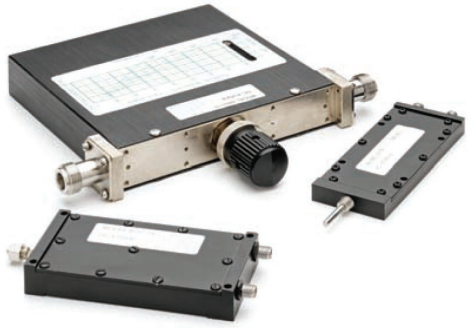


All dimensions shown in decimal inches (mm). Specifications subject to change without notice.
For mounting instructions, additional specifications or other products, visit us online or contact the factory.

PHASE SHIFTERS

High-Performance, Trough Line

- SMA and 2.92 mm connectors
- Military-grade materials and processing
- Power: Average 100 watts / Peak 1000 watts

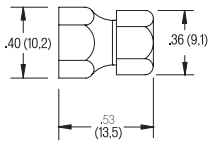


Part Number*	Frequency (GHz)	Phase Shift Min. (°/GHz)	Phase Shift Min. (°/GHz/Shaft Turn)	Insertion Phase Nom. @ Min. Phase Setting (°/GHz)	VSWR Max.	Insertion Loss Max. (dB)	Time Delay Nom. @ Min. Phase Setting (nsec.)	Outline
6709	DC – 1	940	9.7	1040	1.50:1	0.7	2.90	A
6709-2	DC – 1	940	9.7	1040	1.50:1	0.7	2.90	A
6709-15	DC – 1	940	9.7	1040	1.50:1	0.7	2.90	A
6706	DC – 2	290	9.7	540	1.35:1	0.7	1.50	A
6806-2	DC – 2	290	9.7	550	1.60:1	0.7	1.50	B
6707	DC – 4	145	4.9	290	1.60:1	0.7	0.80	A
6708-2	DC – 8	72	2.4	170	1.60:1	0.7	0.45	A
6705	DC – 18	40	1.5	140	1.60:1	1.5	0.40	C
6705-1	DC – 18	40	1.5	140	1.60:1	1.5	0.40	C
6705-2	DC – 18	40	1.5	140	1.60:1	1.5	0.40	C
6705-5	DC – 18	40	1.5	140	1.60:1	1.5	0.40	C
6705-14	DC – 18	40	1.5	140	1.60:1	1.5	0.40	C
6805	DC – 18	40	1.5	150	1.60:1	1.5	0.40	D
6805-14	DC – 18	40	1.5	150	1.60:1	1.5	0.40	D
6705K	DC – 26.5	40	1.5	130	1.60:1	1.25 (DC-18 GHz) 1.75 (18-26.5 GHz)	0.40	C
6705K-2	DC – 26.5	40	1.5	130	1.60:1	1.25 (DC-18 GHz) 1.75 (18-26.5 GHz)	0.40	C

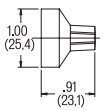
***Base model sold without additional options.**
-1 Shaft lock.
-2 Turns counter with built-in shaft lock.
-5 Control knob.
-14 Shaft lock with screw driver slot.
-15 Shaft lock with control knob.

Notes:
1. 1° 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 standard connectors. Power is further limited by the power threshold of connector style.

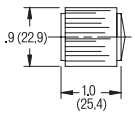
(-1) Shaft Lock



(-2) Turns Counter with Shaft Lock



(-5) Control Knob



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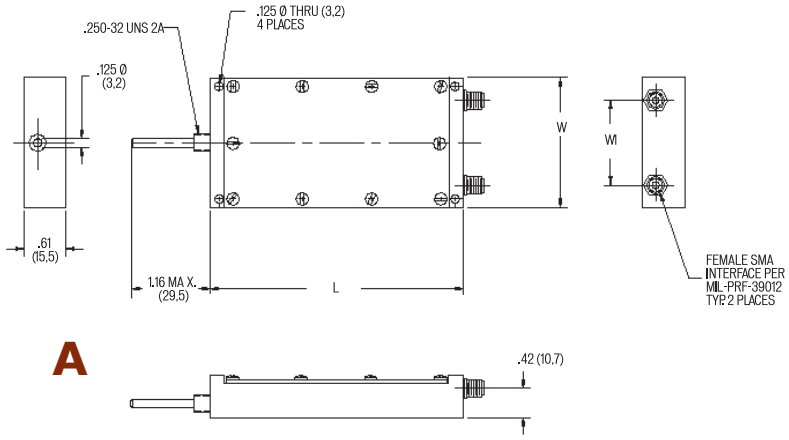
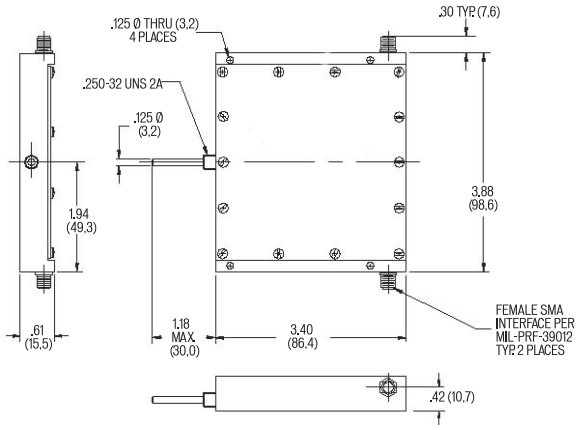
High-Performance, Trough Line

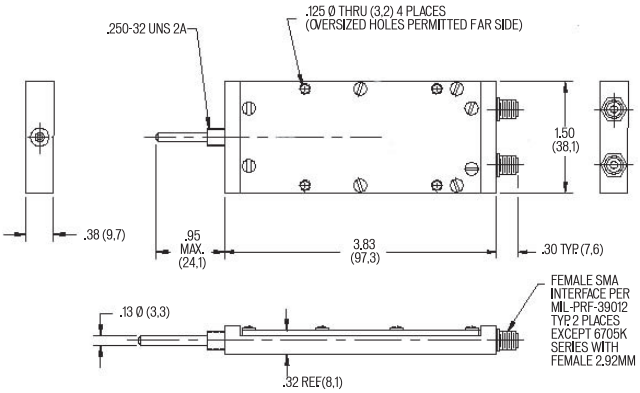


A

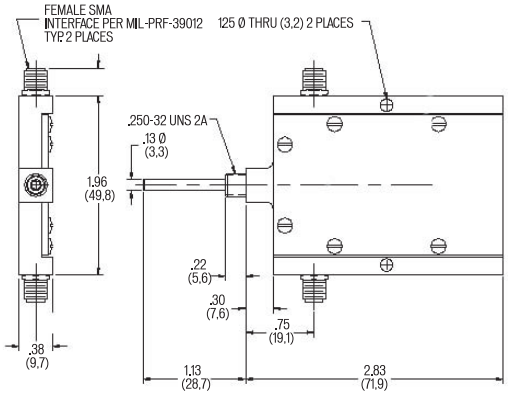
Part Number*	L	W	W1
6709	7.73 (196,3)	3.50 (88,9)	2.83 (71,9)
6706	3.67 (93,2)	3.47 (88,1)	2.83 (71,9)
6707	3.67 (93,2)	1.88 (47,8)	1.22 (31,0)
6708	3.67 (93,2)	1.06 (26,9)	.41 (10,4)



B



C



D

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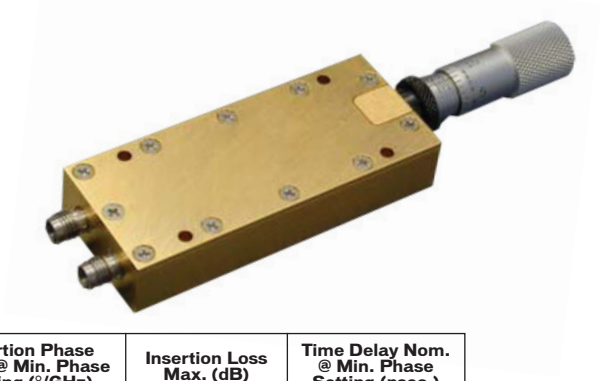
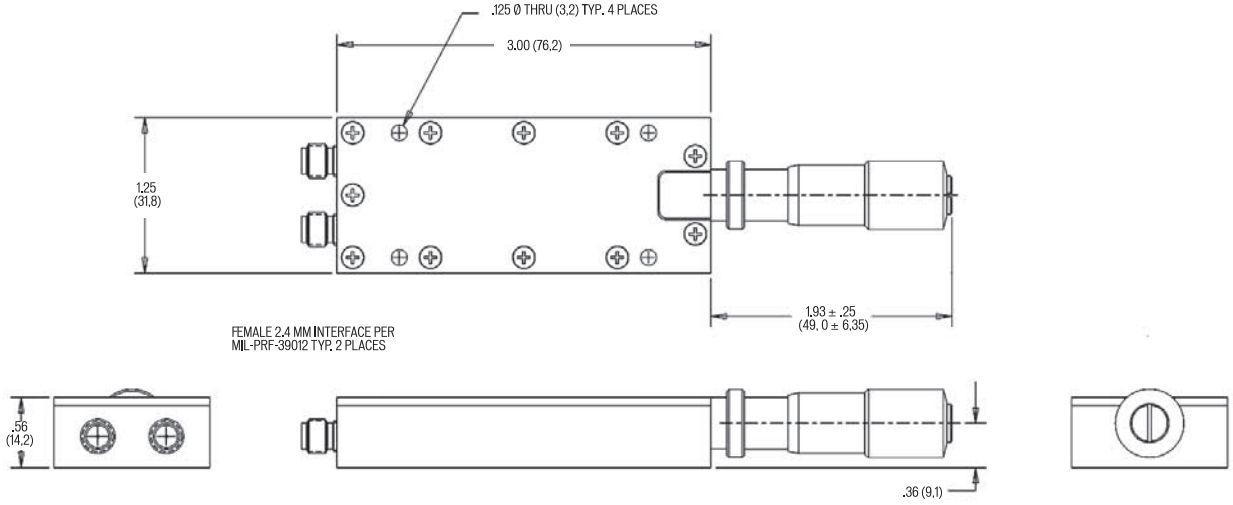
High Frequency Optical

- 2.4 mm Connectors
- Precision micrometer head adjustment for enhanced resolution and setting accuracy



Part Number*	Frequency (GHz)	Phase Shift Min. (°/GHz)	Phase Shift Min. (°/GHz/Shaft Turn)	Insertion Phase Nom. @ Min. Phase Setting (°/GHz)	Insertion Loss Max. (dB)	Time Delay Nom. @ Min. Phase Setting (nsec.)
OPS0002	DC - 50	40	1.6	190	3 (DC - 20 GHz) 5 (20 - 50 GHz)	0.5

Notes:
1. 1° per GHz of phase shift equals 2.78 picoseconds of time delay.



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