

# PRODUCT SPECIFICATION

# PHASE SHIFTER DC TO 50 GHz, COAXIAL, OPTICAL COMMUNICATIONS



## OPS SERIES

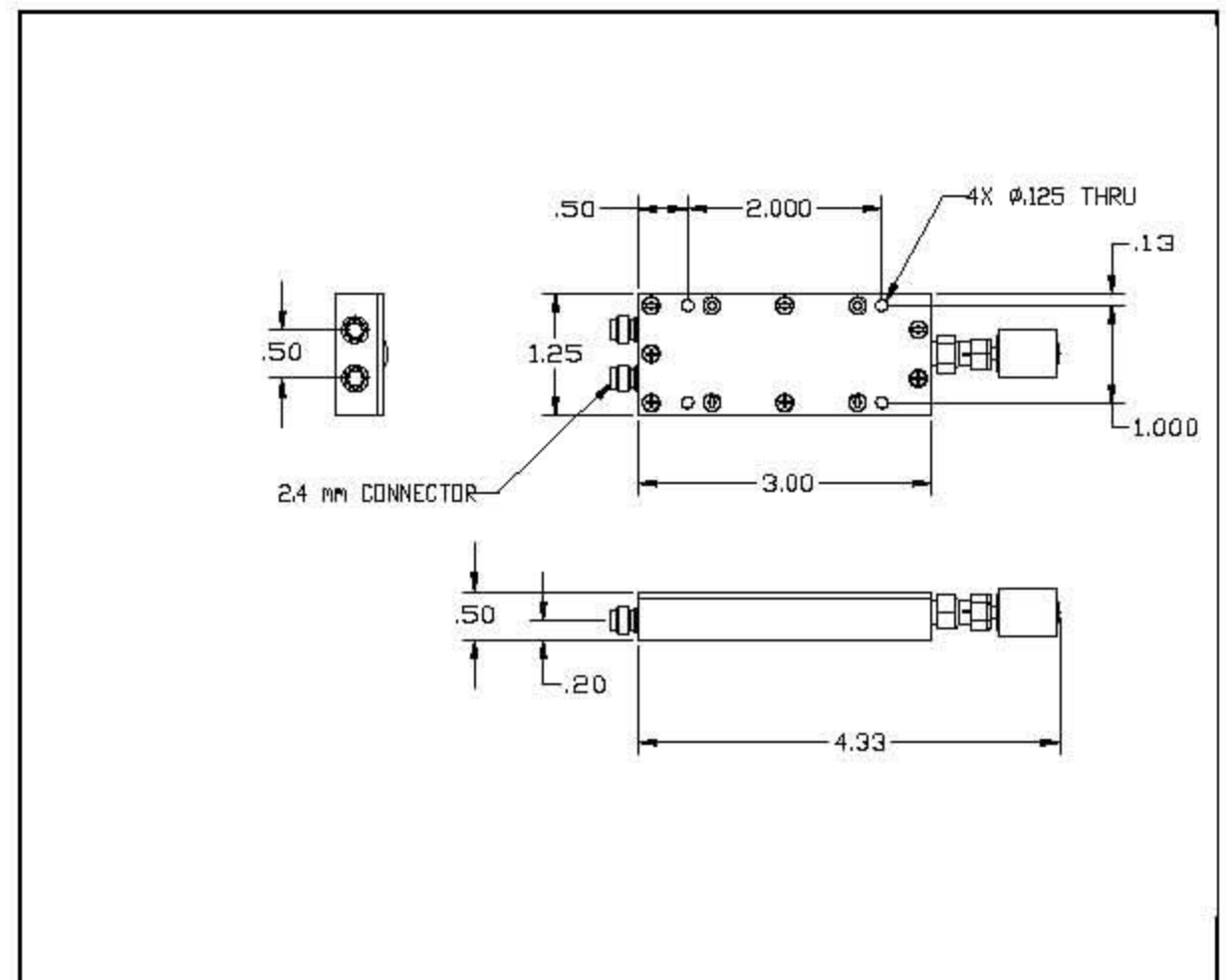
### FEATURES

- DC – 50 GHz Range for Optical Communications
- Precision 2.4 mm Connectors
- Precision Micrometer Head Adjustment for Enhanced Resolution and setting accuracy

### SPECIFICATIONS

Model	OPS0002
Frequency Range (GHz)	DC-50
Phase Shift, min ( $^{\circ}$ /GHz)	40
Phase Shift, min ( $^{\circ}$ /GHz/Shaft Turn)	1.6
Insertion Phase Nominal @ Min Phase Setting ( $^{\circ}$ /GHz)	190
Number of Turns, min	28
Return Loss, min (dB)	DC-20GHz: 12 20-50GHz: 8
Insertion Loss, max (dB)	DC-20GHz: 3 20-50GHz: 5
Time Delay, min (ps)	100
Time Delay, min (ps/Shaft Turn)	4
Time Delay, nominal @ Min Phase Setting (ps)	500
Weight	
Ounces	3

### OUTLINE DRAWING



### NOTES:

1. 1 Degree per GHz of Phase Shift equals 2.78 picoseconds of time delay.