



OPTICAL RECEIVER TEST BOARD

- BUILT-IN HIGH VOLTAGE BIAS SUPPLY
- SINGLE-ENDED OR DIFFERENTIAL OUTPUT
- SOCKET PINS FOR EASY RECEIVER MOUNTING
- COMPACT SIZE



DESCRIPTION:

The **7511-PCB** Optical Receiver Test Board is designed to assist in the evaluation and development of products that incorporate the AMI 7511 Series Optical Receiver and custom variants. This test board, along with the 7511 Receiver, may also be used as a stand-alone optical receiver ideal for driving A-D converters. The module is plug and play with a built-in high voltage power supply for detector biasing and temperature compensation. 50 Ohm differential outputs and hard limiting are featured along with high dynamic range and low headroom regulation for exceptionally low noise. Custom optimization for OEM use is available and there is the possibility of providing increased gain as well as alternate detectors with modified 7511 units. The 7511 series receivers can easily be inserted into the socket pins without the need for soldering and the module is compatible with the SM2FH square optical adaptor manufactured by THORLABS. All output signals can be monitored via the test point pins and an external voltage signal can be applied to adjust the biasing voltage. See [7511 series data sheet](#) for receiver specifications.

SPECIFICATIONS:

PARAMETER		Model 7511-PCB			Units
		Min.	Typical	Max.	
Input Power	Positive	+4.95	-	+12.6	VDC
	Negative	-4.95	-	-12.6	
Input Current	Positive	-	-	90	mA
	Negative	-	-	60	
Midband Gain		-	1.0	-	MV/W
Size		-	2.0 x 2.0 x 0.625	-	inches
Weight		-	18.8 (0.663 oz.)	-	grams

All measurements made at 20°C

*Specifications subject to change without notice.

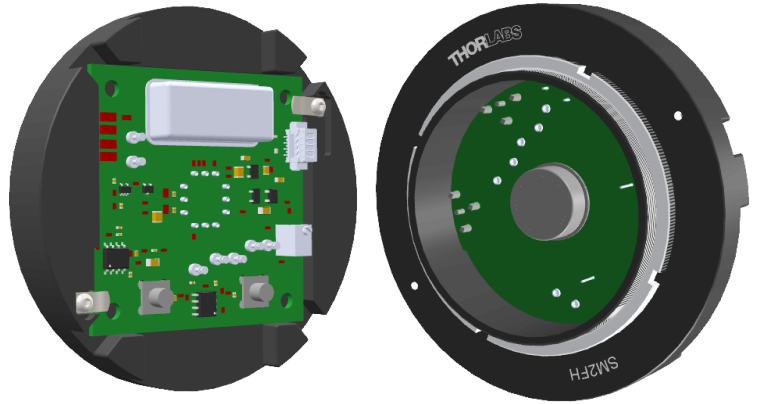
APPLICATIONS:

*Eyesafe Sensors, Medical Applications,
Laboratory Instrumentation, Ranging, LIDAR*

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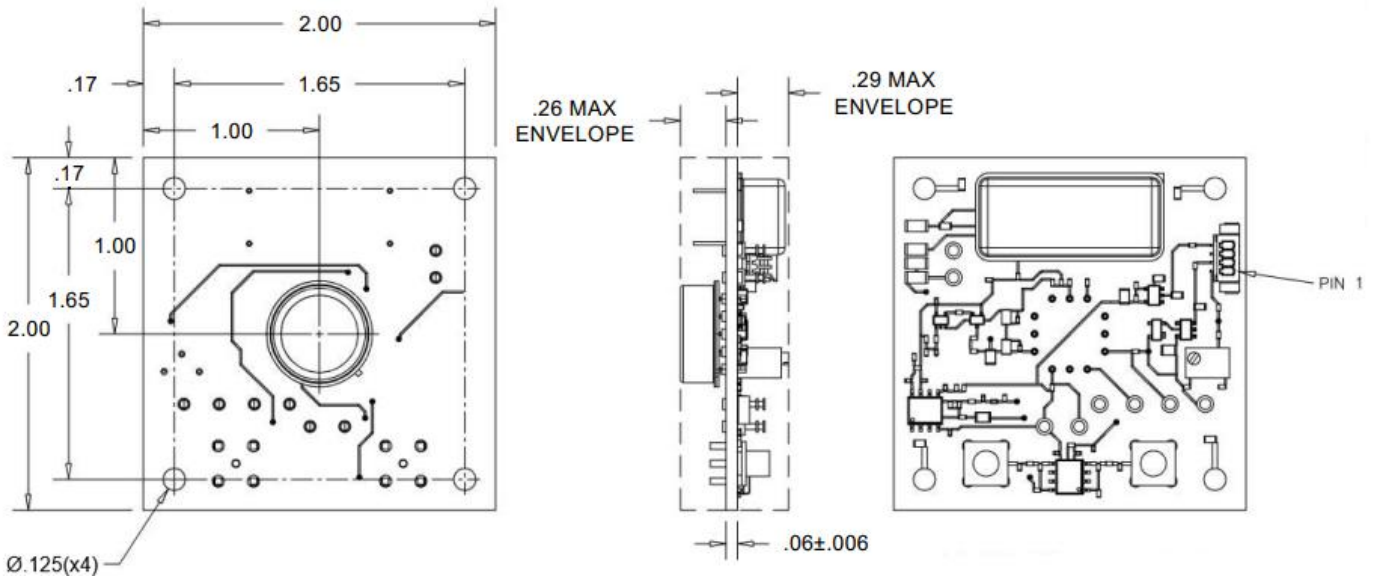
7511-PCB with 7511B-1-04 Receiver Mounted*



Installed in THORLABS SM2FH Optical Adaptor

OUTLINE DRAWING*

DWG 23-008_A



*Model 7511 Receiver is shown for illustration purposes only and is sold separately.

Dimensions are in inches

TOLERANCES	
DECIMAL	
.XX	±.02
.XXX	±.005