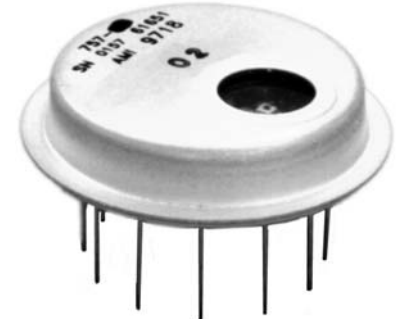




HYBRID HIGH PERFORMANCE EYESAFE LASER RANGEFINDER RECEIVER

- HIGH SENSITIVITY - BELOW 100nW
- OPTIMIZED FOR NARROW PULSES
- MINIATURE HERMETIC CONSTRUCTION
- 300 μ m InGaAs PIN DETECTOR
- HIGH RESOLUTION OF MULTIPLE TARGETS



DESCRIPTION:

The **Model 753A** is a new generation hybrid eyesafe laser rangefinder receiver optimized for high sensitivity and narrow pulses. The single layer construction helps improve detector stability. The window is AR-coated on both sides to reduce losses at 1.54 μ m and the detector is offset from the center to avoid undesirable feedback from input to output. The compact construction and PCB mounting capability make it ideal for miniature applications requiring improved target fidelity.

SPECIFICATIONS:

Detector	300 μ m InGaAs PIN	Time Programmed Gain	25:1 typical via external start signal.
Sensitivity	100nW (50% Pd, 0.1% FAR, 6ns pulsewidth, 25°C)	Receiver Delay	\leq 8ns
Multiple Target Resolution		Output	TTL negative logic, 18ns pulsewidth minimum
Small Signal	65ns typical with two equal pulses	Power	+12 \pm 1VDC at 60mA maximum
Dynamic Range	10 ⁶ :1 with TPG	Start-up Time	\leq 50ms
Temperature Range		Size	1.18" \varnothing x 0.265"
Operating	-32° to +65°C		
Storage	-54° to +85°C		
	Sensitivity decreases for temperatures greater than +25°C.		

Specifications subject to change without notice.



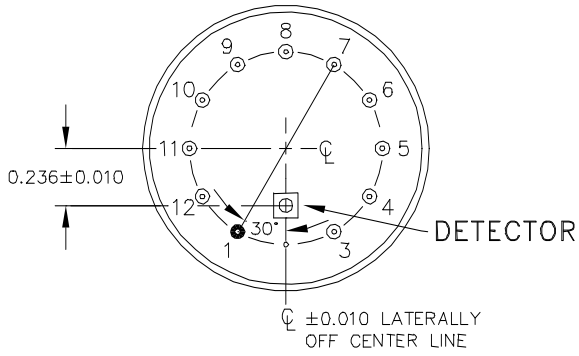
APPLICATIONS:

Laser Ranging and Surveying

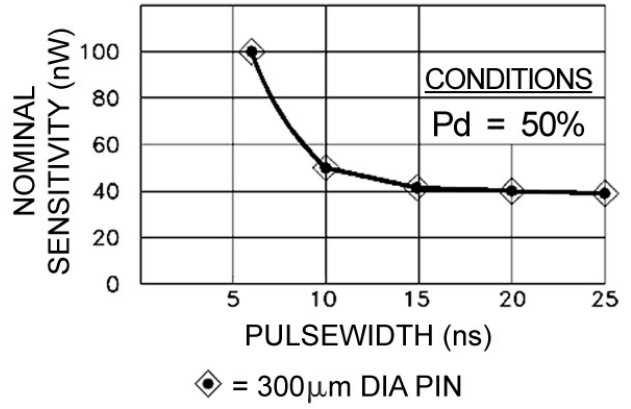
"In the event this commodity will be transferred to a "foreign person" as defined in 22 CFR 120.16, either outside or within the United States, a validated US State Department license is required."

126 BAYWOOD AVENUE ♦ LONGWOOD, FLORIDA 32750-3426 ♦ USA
(407) 339-4355 ♦ FAX (407) 834-3806 ♦ E-mail: ami@analogmodules.com
www.analogmodules.com

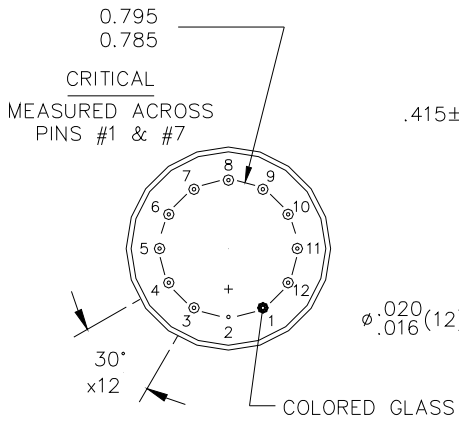
LASER RECEIVER 753A
TOP VIEW



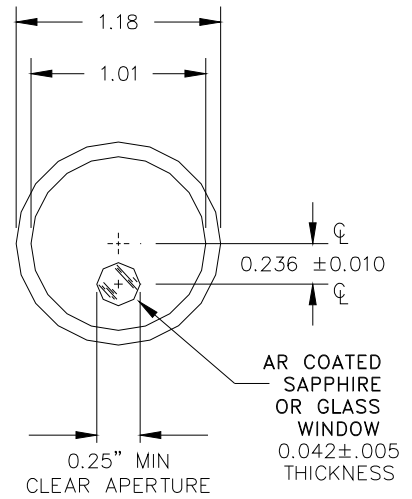
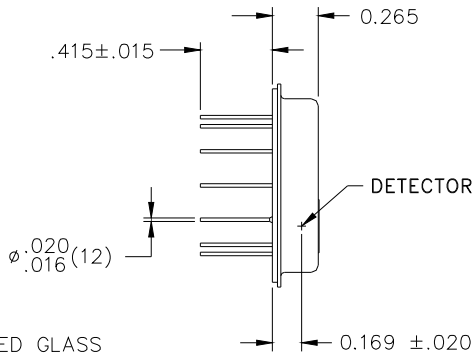
OPTICAL SENSITIVITY vs PULSEWIDTH



UNLESS OTHERWISE SPECIFIED;
INCHES ± 0.01
INCHES ± 0.005



BOTTOM VIEW



TOP VIEW