



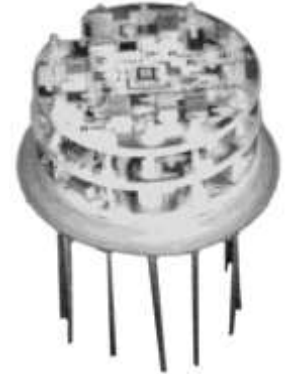
Not Recommended for New Designs (NRND)
See Model 759A

ANALOG MODULES, INC.

MODEL 754
HYBRID EYESAFE
LASER RANGEFINDER RECEIVER

HYBRID EYESAFE LASER RANGEFINDER RECEIVER

- HIGH SENSITIVITY
- HERMETIC TO-8 PACKAGE, 0.1 CU INCH
- FAST RECOVERY – LOW MINIMUM RANGE
- InGaAs PIN DETECTOR
- SINGLE SUPPLY
- FIELD PROVEN PERFORMANCE



DESCRIPTION:

The **Model 754** hybrid eyesafe laser rangefinder receiver is designed for laser ranging/surveying equipment. Because of the compact construction (Modified TO-8 header) and the PCB mounting capability, the **Model 754** is ideal for miniature applications. Fast recovery from T_o overload allows ranging to close objects without compromising long range performance.

SPECIFICATIONS:

Detector	1.54 μm , InGaAs PIN, 300 μm +60/-30 μm \varnothing	Outputs	TTL or CMOS compatible, negative logic. Start/Stop on common line. ≥ 40 ns pulses. 470 Ω pull up to +5 V. Maximum sink current 2 mA.
Sensitivity	50 nW typical at 1.54 μm , 28 ns pulse, 50% detection, 0.1% FAR, 20°C, degrades with narrower pulses.	Alignment	Analog test point for alignment (pin 2 or 8)
T_o Pulse		Power	+12 \pm 0.5 VDC at 25 mA typical
Optical	>0.1 mW or	Temperature	
Electrical	Pull output to zero for 100 ns. An open-drain FET is recommended.	Operating	-45° to +85°C
Time Programmed Gain (TPG)		Storage	-55° to +125°C
	1/R ² law operates from minimum range of ~20 m to 2 km with separate Tx/Rx optics. Minimum range ~200 m with 20 mW T_o pulse. 0.7 V or open enables TPG. 0V or GND inhibits TPG and holds low gain.	Connections	PCB mount, pins With optional PCB (Add -PCB to part number.)
Adjustments	Trigger level is adjustable to allow a change in signal-to-noise ratio.	Size	0.6" \varnothing x 0.425"

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."

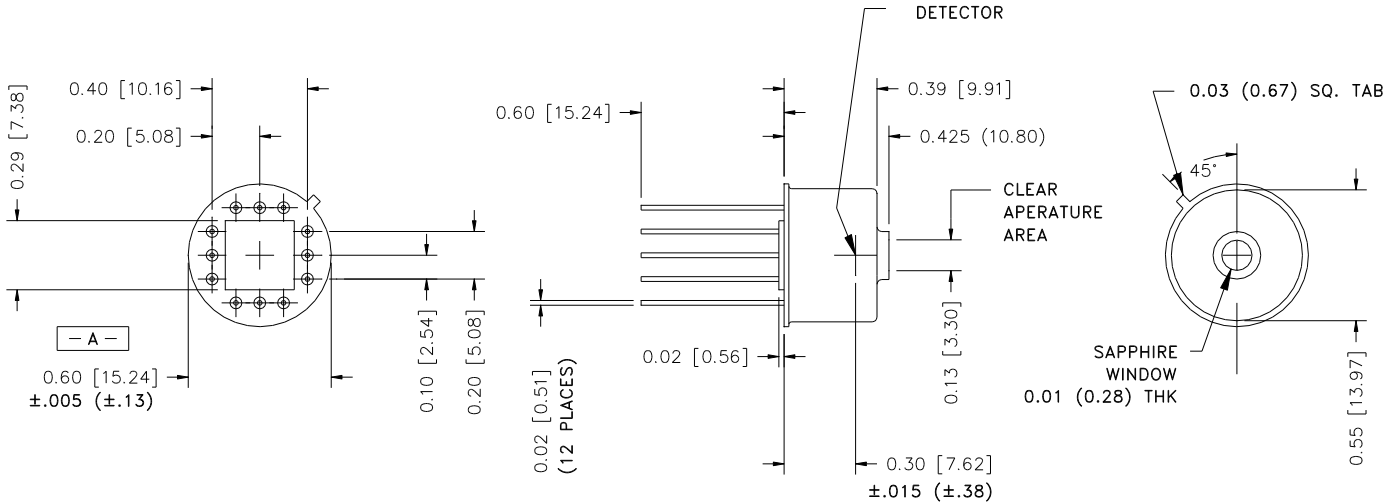
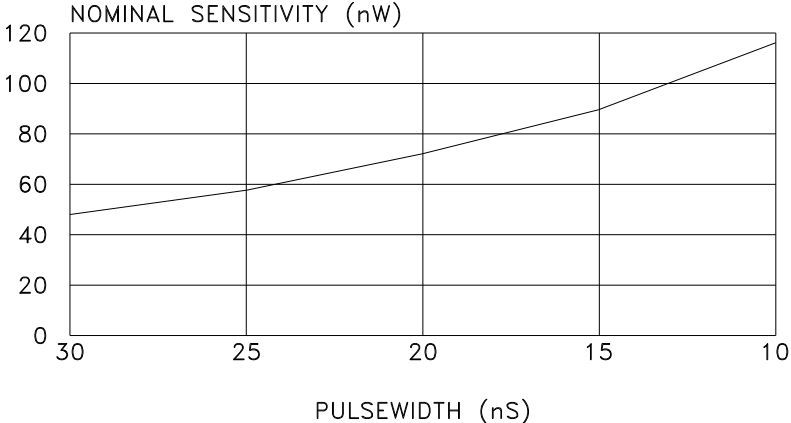
126 BAYWOOD AVENUE ♦ LONGWOOD, FLORIDA 32750-3426 ♦ USA
(407) 339-4355 ♦ FAX (407) 834-3806 ♦ E-mail: ami@analogmodules.com
www.analogmodules.com

10/2022

CONNECTIONS	754, PCB mount, PINS	754
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Typical Part Number: **754-PCB =** Connections: PCB mount, PINS with PCB

MODEL 754 HYBRID RECEIVER
SENSITIVITY vs PULSEWIDTH



UNLESS OTHERWISE SPECIFIED;
TOLERANCE: INCHES ± 0.01
(MM ± 0.25)

P2589S13

BOTTOM VIEW

TOP VIEW