

Laser Range Finder Receivers

- A series of laser receivers for rangefinder applications.
- Two different types of receivers are offered:
 - RC 101, based on InGaAs APD detectors (silicon APD is also available)
 - RC 202, based on InGaAs Pin detectors.
- Using large area detectors, these receivers exhibit excellent sensitivity.
- These hybrid receivers are packaged in hermetically sealed cases and designed to meet Mil-Std-883B requirements.
Each Receiver Integrates:
- **TEC** - for sensitivity optimization (temp. stabilization).
- Optimization of receiver is made according to the laser pulsewidth.
- **TPG** - for closer echo cancellation.

TYPE	DETECTOR TYPE	ACTIVE DIAMETER	SENSITIVITY 90% (nW)	Pulsewidth (nS)	SUPPLY VOLTAGES(V)
RC101	InGaAs APD	0.2mm	25	10	100,±15
RC202	InGaAs PIN	0.3mm	120	20	+12

TIME PROGRAMMABLE GAIN DYNAMIC RANGE – 15dB
TARGET DISCRIMINATION - >120nS space between targets
VO1 – DIGITAL TTL OUTPUT
VO2 – ANALOG OUTPUT (0V TO 2v)

Small package for analog output only (TO can).

- **PHOTODETECTOR - RECEIVER MODULES**

High-sensitivity, flexible incorporation of detector (PIN, APD, Si, or InGaAs).
Built-in detector bias, TPG, digital, output.

