

## Hermetic Limiter Discriminators

RTI has developed a series of hybrid limiter discriminators that provide accurate FM demodulation of very high speed, pulsed IF signals. The RTD-6 series has been designed for systems using fast pulses of short duration with transient distortion of pulse edges greatly reduced. These units are available in the 30 MHz to 1 GHz frequency range, with PC mountable pins.



### Key Features

- 30 MHz to 1GHz Frequency Range
- Hermetically Sealed PCB Mountable
- $<\pm 5\%$  Linearity

### Optional Specifications

Power Supplies	$\pm 12V$ DC (add suffix C)
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### General Specifications

Linearity	$<\pm 5\%$ (at 0dBm)
Source Impedance	50 Ohms
Load Impedance	93 Ohms
Temperature Range	-30°C to +71°C
Power Requirements	$\pm 15$ VDC

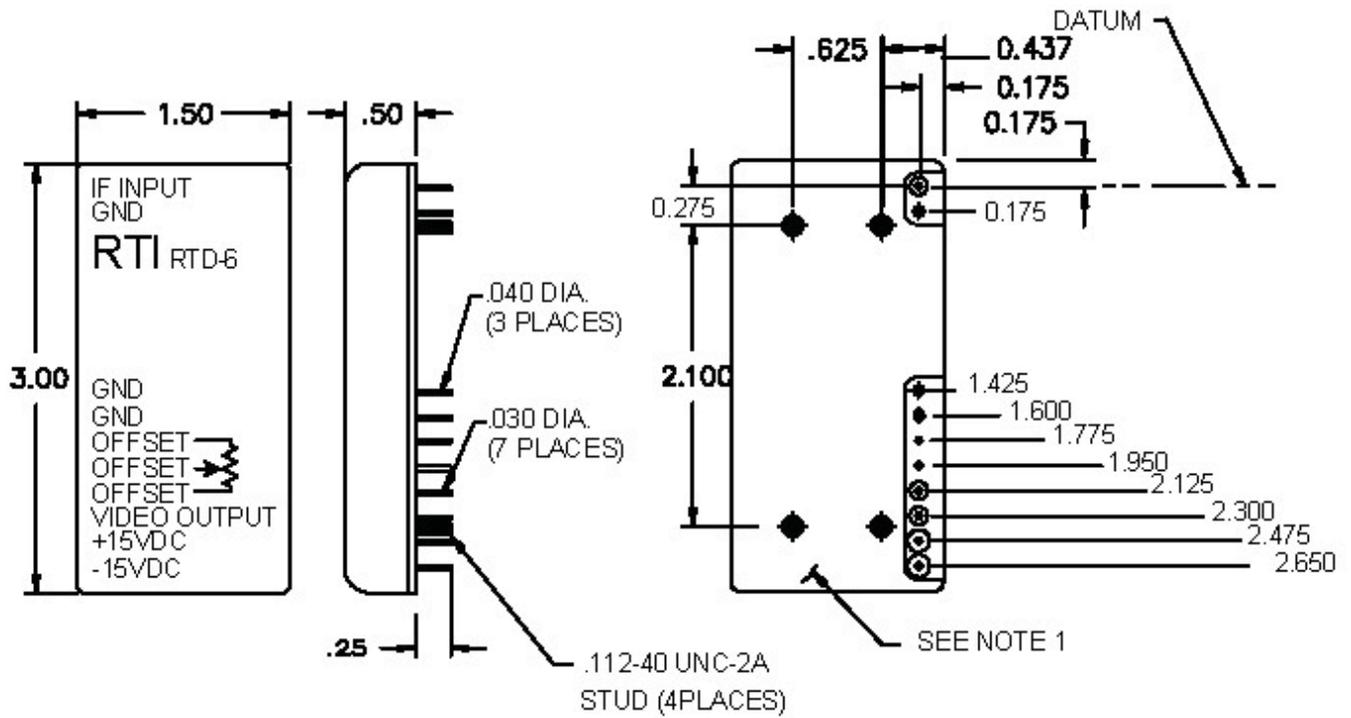
**Design Note:** Radar Technology can customize any of our products to meet your individual system requirements. RTI also offers many form, fit, function replacements to old RHG Electronics Amplifiers.

### Specification Table

Model	Center Frequency (MHz)	Peak to Peak Bandwidth (MHz)	Linear Bandwidth (MHz)	Rise Time (nsec)	Video Output (mV/MHz)	Input Level Range (dBm)
RTD-6-30	30	20	10	125	100	-20 to 0
RTD-6-60	60	30	15	70	50	-20 to 0
RTD-6-70	70	30	20	70	50	-20 to 0
RTD-6-160	160	100	50	25	25	-20 to 0
RTD-6-300	300	200	100	25	25	-10 to 0
RTD-6-500	500	250	150	25	25	-10 to 0
RTD-6-750	750	400	250	25	15	-10 to 0
RTD-6-1000	1000	500	500	25	10	-10 to 0

\*Parameters can be modified to meet specific application requirements

## Outline Drawing



Notes:

1. This surface should be in direct contact with the mounting surface.

TOLERANCES ARE:  
 DECIMAL .XX  $\pm$  .020  
 .XXX  $\pm$  .010