

## Hermetic Sealed Log Amplifiers

RTI has developed a series of hybrid log amplifiers that are small in size, light in weight, and high on reliability. These units are hermetically sealed devices with 50 Ohm PCB mountable pins. The amplifiers are available in a variety of chassis packages and are designed to meet MIL-STD-5400 and MIL-STD-16400 environments and can be cycled to MIL-STD 883, Method 1010, Condition A.



### General Specifications

Linearity	$\pm 1$ dB (add $\pm 0.5$ dB over Temperature) (-30°C to +71°C)
Sensitivity	25mV/dB (typ)
Source Impedance	50 Ohms
Video Load Input	93 Ohms
Power Requirements	$\pm 15$ V DC
Connectors	PCB Mountable Pins

### Key Features

- Hermetically Sealed
- PCB Mountable
- 80dB Dynamic Range
- $\pm 1$  dB Linearity

### Optional Specifications

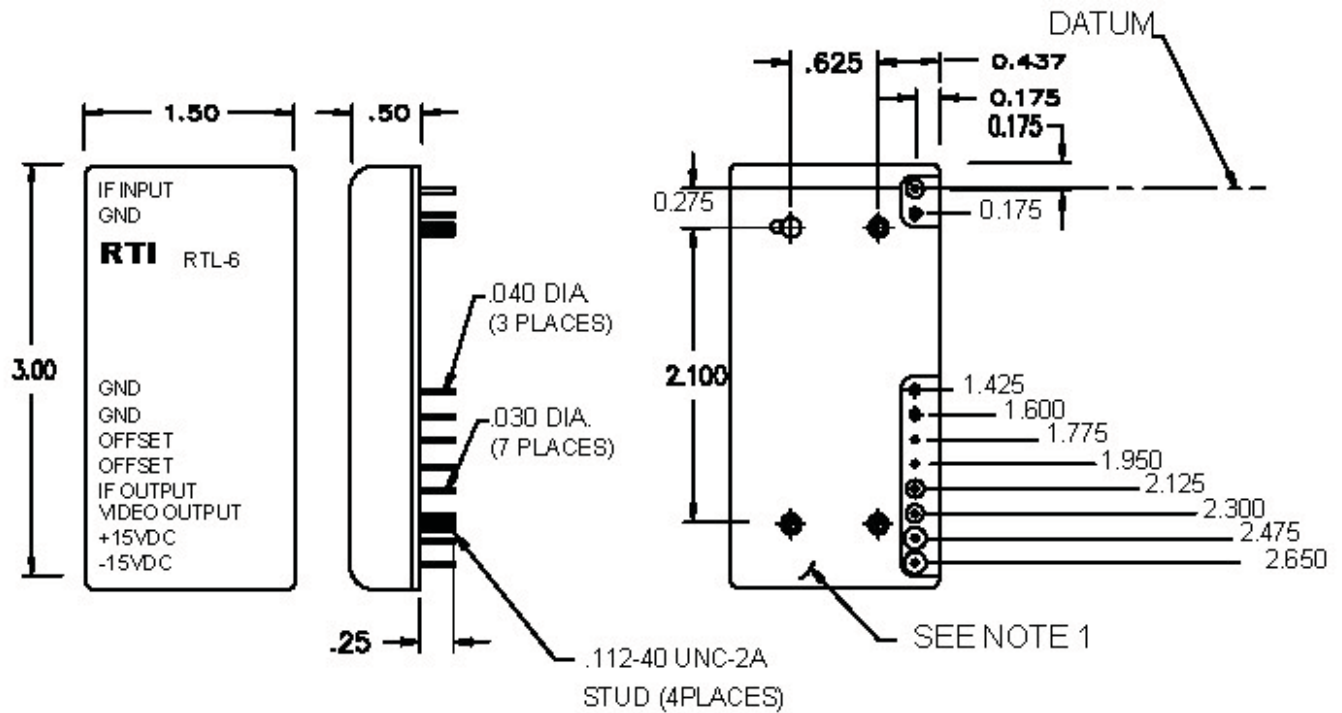
Limited IF Output	0 dBm (add suffix B) or 10 dBm (add suffix B+)
Power Supplies	$\pm 12$ VDC (add suffix C)
Matched Set	2, 3 units/set (add suffix M)

**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)	Bandwidth (MHz)	Rise Time ( $\mu$ S)	Dynamic Range (dB)	Input Power (dBm)
RTL-6-1003	10	3	0.5	80	-80 to 0
RTL-6-3002	30	2	0.5	80	-80 to 0
RTL-6-3004	30	4	0.25	80	-80 to 0
RTL-6-3010	30	10	0.1	80	-80 to 0
RTL-6-4510	45	10	0.1	80	-80 to 0
RTL-6-6010	60	10	0.1	80	-80 to 0
RTL-6-6020	60	20	0.05	80	-80 to 0
RTL-6-7010	70	10	0.1	80	-80 to 0
RTL-6-7020	70	20	0.05	80	-80 to 0
RTL-6-12020	120	20	0.05	70	-70 to 0
RTL-6-12040	120	40	0.03	70	-70 to 0
RTL-6-16020	160	20	0.05	70	-70 to 0
RTL-6-16030	160	30	0.04	70	-70 to 0
RTL-6-16040	160	40	0.03	70	-70 to 0

## Outline Drawing



TOLERANCES ARE:  
 DECIMAL .XX ±.020  
 .XXX ±.010

Notes:

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