

## Logarithmic Hybrid Amplifiers

The RTLX-4 series is a premium version of RTI's standard RTL-4 series for use in systems where logarithmic accuracy is critical. All the key features which have made the RTL-4 series an industry standard - size, reliability, and performance - have been combined with a typical log accuracy of less than 0.3dB to produce the RTLX-4.



### General Specifications

Linearity	±0.5 dB (add ±0.5 dB over Temperature) (-30°C to +71°C)
SENSITIVITY	25mV/dB (typ)
SOURCE IMPEDANCE	50 Ohms
VIDEO LOAD IMPEDANCE	93 Ohms
POWER REQUIREMENTS	± 15 VDC
CONNECTORS	SMA

### Key Features

- 80dB Dynamic Range
- ± 1 dB Linearity  
(add ±0.5 dB over Temperature)
- DC Coupled Video
- Built-in Voltage Regulation
- Excellent Pulse Response

### Optional Specifications

Limited IF Output	0 dBm (add suffix B) or 10 dBm (add suffix B+)
Power Supplies	±12V DC (add suffix C)
Matched Set	2,3 units/set (add suffix M)

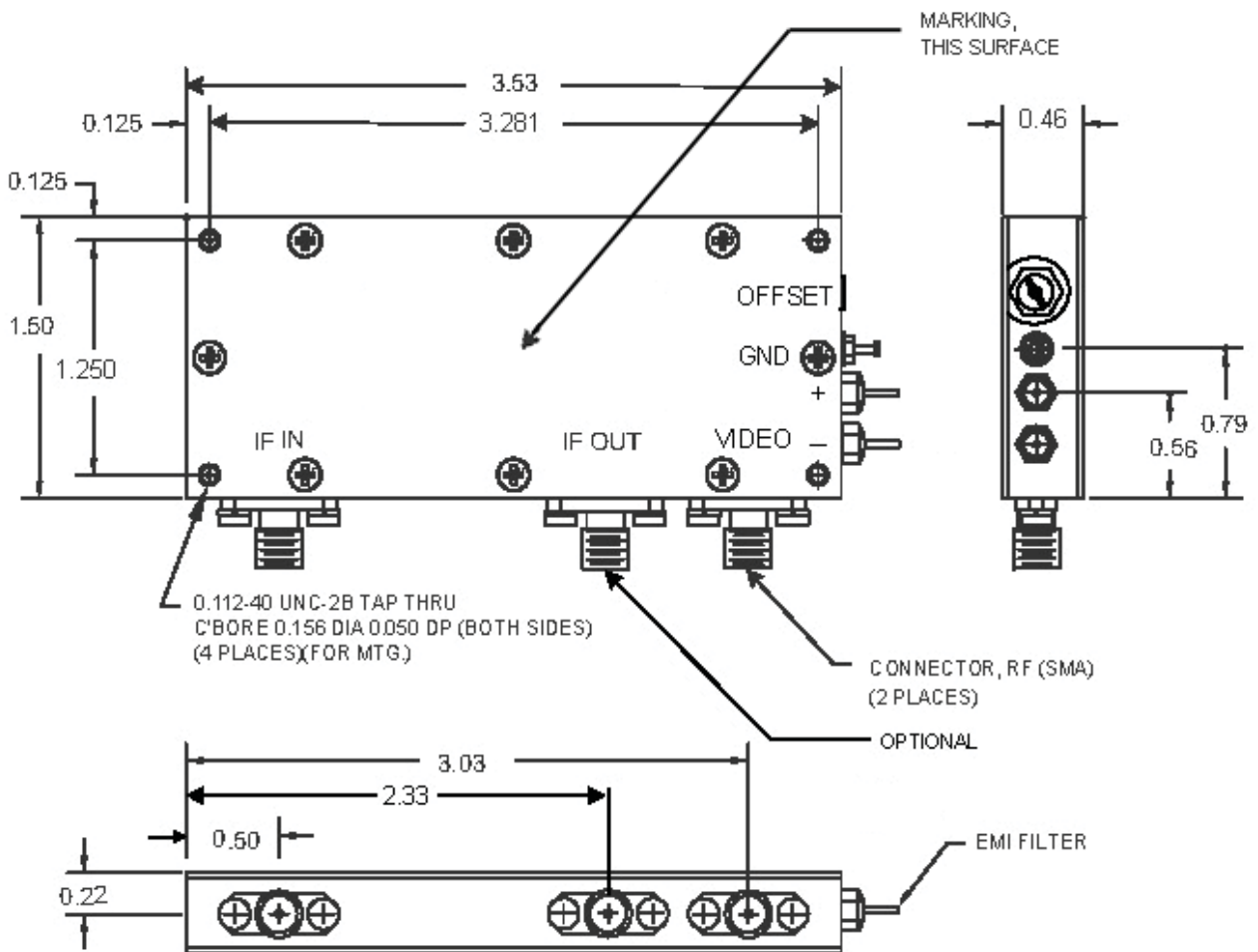
**Design Note:** Radar Technology can customize any of our products to meet your individual system requirements. RTI also offers many form, fit, function replacements to old RHG Electronics Amplifiers.

### Specification Table

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

\*Parameters can be modified to meet specific application requirements

## Outline Drawing



TOLERANCES	
DECIMAL .XX	+ .020
XXX	+ .010

### Notes:

1. Chassis and cover material : Aluminum alloy
2. Finish: Electroless Nickel per MIL-C-26074
3. All dimensions in inches