

Wideband Log Amplifiers

RTI has developed a series of high performance wideband log amplifiers that cover broad operating frequency ranges. The RTLWB-4 series provide excellent log accuracy and pulse performance over wide bandwidths. Slope variations of less than 10% are typical.



Key Features

- Wide Band Operating Frequencies
- 60-70 dB Dynamic Range
- ± 1.0 dB Linearity
- DC Coupled Video
- Excellent Pulse Response

General Specifications

Linearity	± 1.0 dB (add ± 0.5 dB over Temperature) (-30°C to +71°C) (add ± 0.5 dB over Bandwidth)
Sensitivity	25mV/dB (typ)
Source Impedance	50 Ohms
Video Load Impedance	93 Ohms
Power Requirements	± 15 VDC

Optional Specifications

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

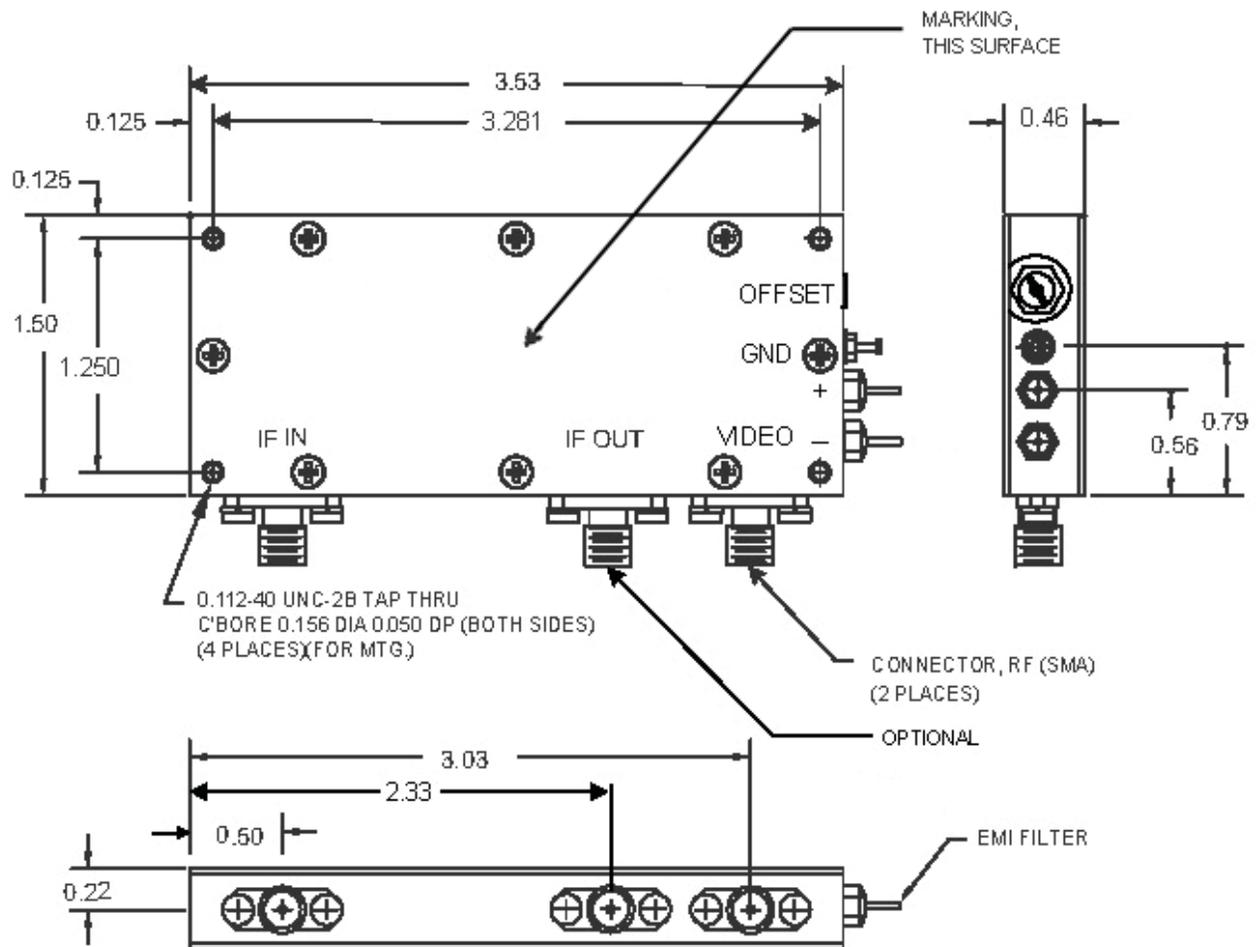
Design Note: Radar Technology can customize any of our products to meet your individual system requirements. RTI also offers many form, fit, function replacements to old RHG Electronics Amplifiers.

Specification Table

Model	Center Frequency (MHz)	Bandwidth (MHz)	Rise Time (μ S)	Dynamic Range (dB)	Input Power (dBm)
RTLWB-4-150	150	100	25	70	-70 to 0
RTLWB-4-160	160	100	25	70	-70 to 0
RTLWB-4-300	300	200	15	70	-70 to 0
RTLWB-4-500	500	200	15	60	-60 to 0
RTLWB-4-750	750	300	10	60	-60 to 0
RTLWB-4-1000	1000	500	10	60	-60 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