

Hybrid 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-4 series has been designed for systems using fast pulses of short duration with transient distortion of pulse edges greatly reduced.

Key Features

- 30 MHz to 3GHz Frequency Range
- $<\pm 5\%$ Linearity
- Excellent Pulse Fidelity



General Specifications

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

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.

Optional Specifications

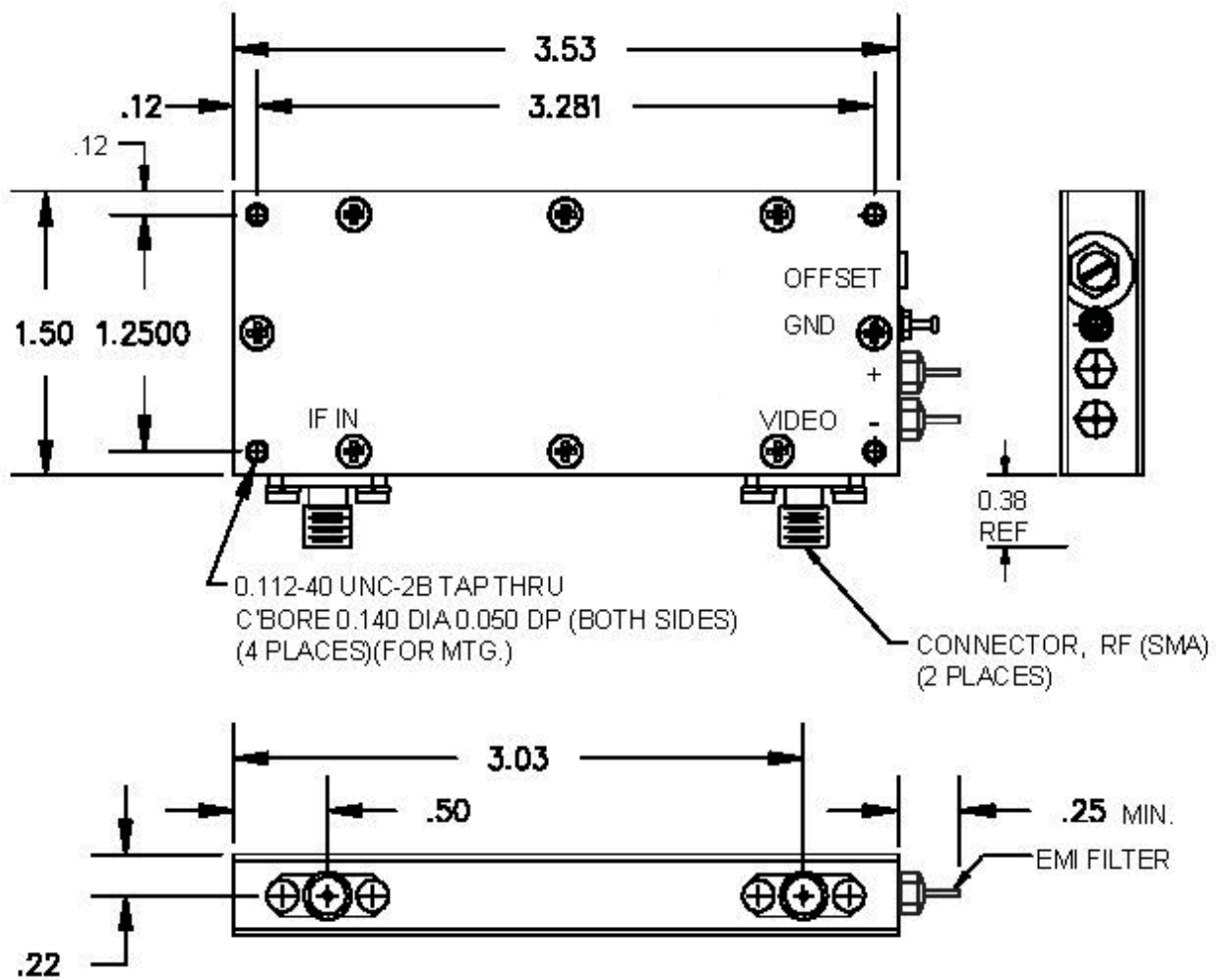
Power Supplies	± 12 V DC (add suffix C)
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Specification Table

Model	Center Frequency (MHz)	Peak to Peak Bandwidth (MHz)	Linear Bandwidth (MHz)	Rise Time (nsec)	Video Output (mV/MHz)	Input Level Range (dBm)
RTD-4-30	30	20	10	125	100	-20 to 0
RTD-4-60	60	30	15	70	50	-20 to 0
RTD-4-70	70	30	20	70	50	-20 to 0
RTD-4-160	160	100	50	25	25	-20 to 0
RTD-4-300	300	200	100	25	25	-10 to 0
RTD-4-500	500	250	150	25	25	-10 to 0
RTD-4-750	750	400	250	25	15	-10 to 0
RTD-4-1000	1000	500	500	25	10	-10 to 0
RTD-4-2000	2000	300	200	25	20	-10 to 0
RTD-4-3000	3000	300	200	25	20	-10 to 0

*Parameters can be modified to meet specific application requirements

Outline Drawing



Notes:

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