

Linear Hybrid Amplifiers

RTI has developed a series of linear amplifiers that offer excellent linearity with exceptionally wide dynamic range. By providing adequate gain, these amplifiers are able to boost the levels of CW and pulsed signals for additional IF or video signal processing.

Key Features

- 10-1000MHz Frequency Range
- 60-70dB Gain
- Gain Control
- Low Noise



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.

General Specifications

Gain Control	50dB (min)
Gain Control Voltage	0 to -4V (nom)
Source Impedance	50 Ohms
Video Load Impedance	93 Ohms
Temperature Range	-30°C to +71°C
Power Requirements	+15V DC
Connectors	SMA

Optional Specifications

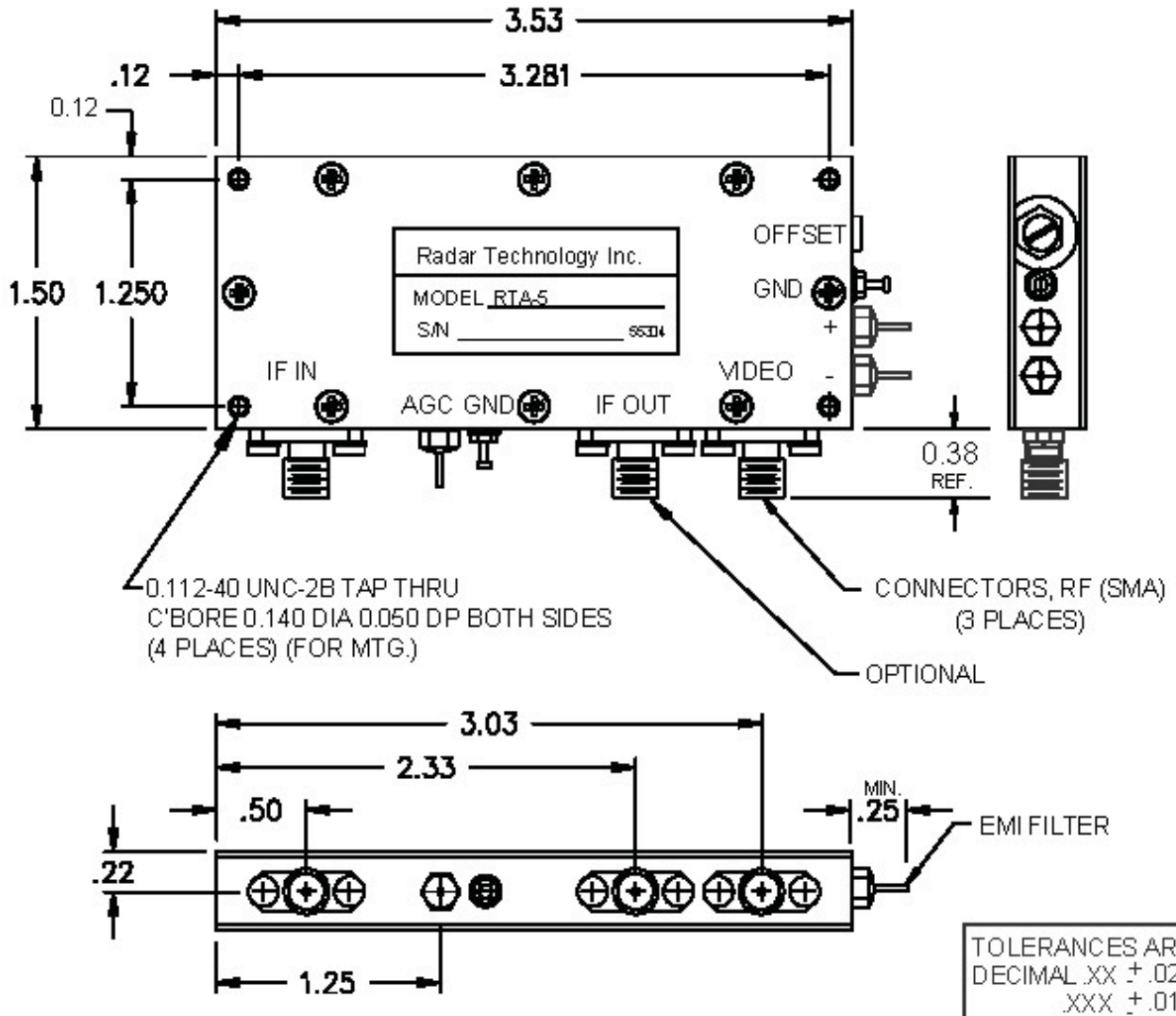
DC Coupled Video Output	(add suffix D)(requires ±15V DC)
Power Supplies	±12V DC (add suffix C)
Matched Set:(Gain/Phase)	2,3 units/set (add suffix M)

Specification Table

Model	Center Frequency (MHz)	Bandwidth (MHz)	Noise Figure (dB)	Dynamic Range (dB)	Power Supply(V DC)
RTA-5-1003	10	3	4	70	+15
RTA-5-3002	30	2	4	70	+15
RTA-5-3010	30	10	4	70	+15
RTA-5-6010	60	10	4	70	+15
RTA-5-6020	60	20	4	70	+15
RTA-5-7010	70	10	4	70	+15
RTA-5-7020	70	20	4	70	+15
RTA-5-12020	120	20	5	60	+15
RTA-5-12040	120	40	5	60	+15
RTA-5-16020	160	20	5	60	+15
RTA-5-16040	160	40	5	60	+15

*Parameters can be modified to meet specific application requirements

Outline Drawing



Notes:

1. Chassis material is AL alloy per QQ-A-250 with yellow iridite finish per MIL-C-5541.
2. Top cover is AL alloy, finish semigloss black enamel with white markings approximately as shown.
3. Bottom cover is Kovar with nickel/gold finish.
4. All semiconductor devices contained within the unit are hermetically sealed, but overall unit is not.
5. The substrate and discrete components are conformally coated.