

The RTIQ Series of I/Q detectors was developed by RTI to measure the amplitude and phase of an IF input signal relative to a fixed level (Ref) signal.

Key Features

- 10-350MHz Frequency Range



General Specifications

Required Reference Signal	Input Level: +13 ±1dBm
Max. Ev Input Level	(for 1dB saturation): +13dBm
Source Impedance	50 Ohms
Video Load Impedance	75 Ohms
Gain (K)	3.5 ±.35V
Dynamic Range	-20 to 0dBm
Power Requirements	± 15VDC
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

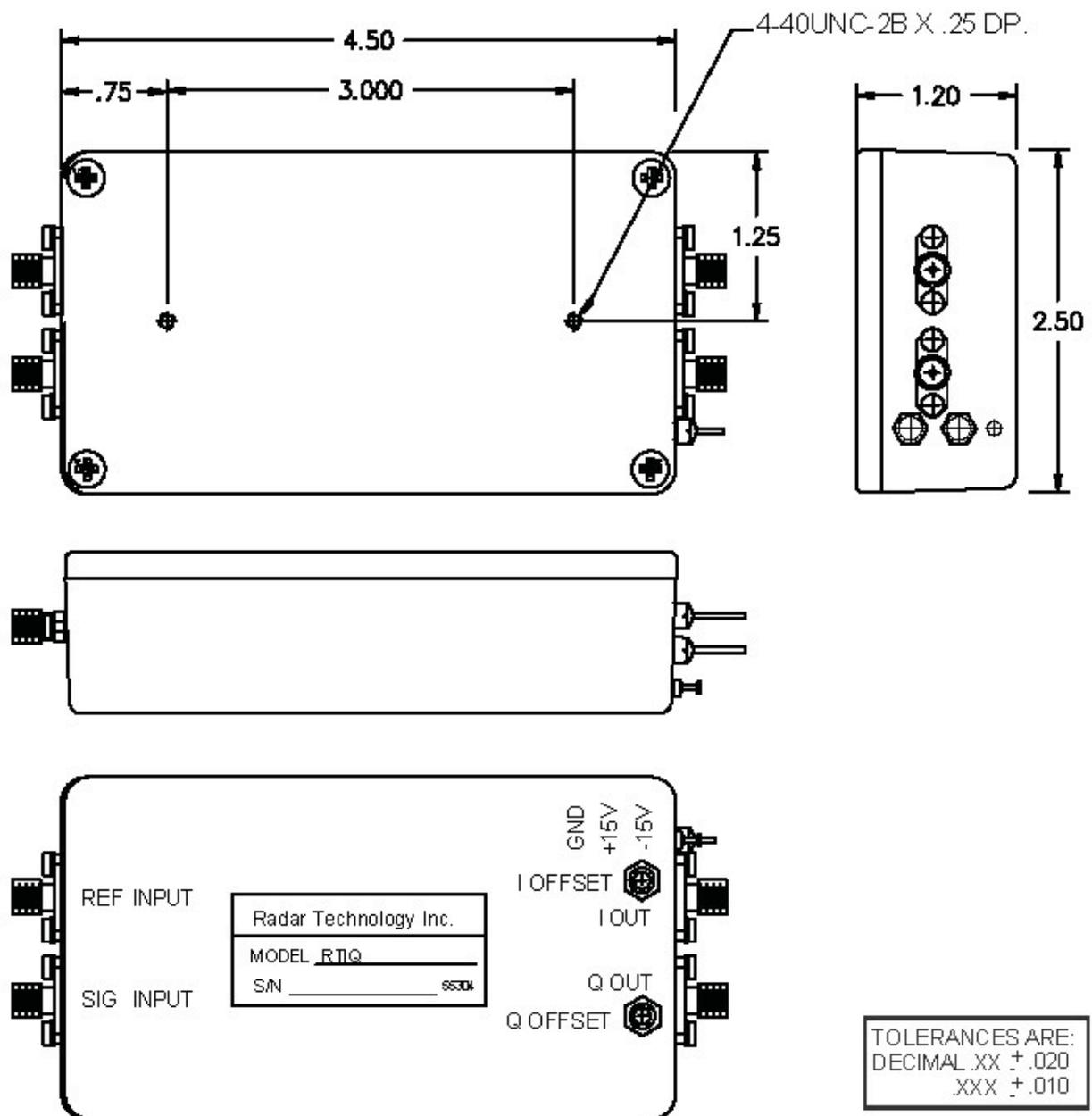
Power Supplies	±12V DC (add suffix C)
Temperature Range	-30 to +71° C

Specification Table

Model	Center Frequency (MHz)	Information Bandwidth (MHz)	Accuracy Bandwidth (MHz)	Settling Time (uS)	Angular Accuracy (Deg.)
RTIQ-3010	30	10	2	0.1	±5
RTIQ-6020	60	20	4	0.08	±5
RTIQ-7020	70	20	4	0.08	±5
RTIQ-16020	160	20	4	0.08	±5
RTIQ-35020	350	20	6	0.05	±5

*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.