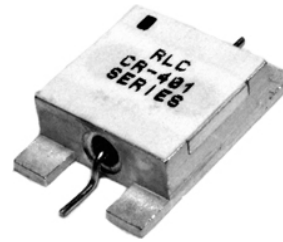


# Miniature Surface Mount Schottky Detectors



RLC Electronics' miniature surface mount detectors utilize a zero-bias Schottky design. The microwave power is coupled directly to the extremely small components reducing package parasitics and transition mismatches. This

design results in a low VSWR and a flat, smooth output over a wide bandwidth. Standard unit has frequency range of .01 to 4 GHz, with option of negative or positive output. A higher frequency option is available up to 12.4 GHz.

## Specifications

### CR-1-2

Frequency Range	.01-4 GHz	.01-12.4 GHz (Option-12)
Frequency Response (Max) .01-4 GHz	+/-0.3 dB	+/-0.3 dB
.01-12.4 GHz	-----	+/-0.5 dB
VSWR (Max) .01-4 GHz	1.30	1.30
4-12.4 GHz	-----	1.70
Typical Sensitivity (Pin< - 30 dBm)	0.5 mV/uW	0.5 mV/uW

**Input Power:** 100 mW maximum (peak or average)    **Temperature Range:** -55 °C to +100 °C

**Video resistance:** 5000 ohms nominal

**Bias:** None

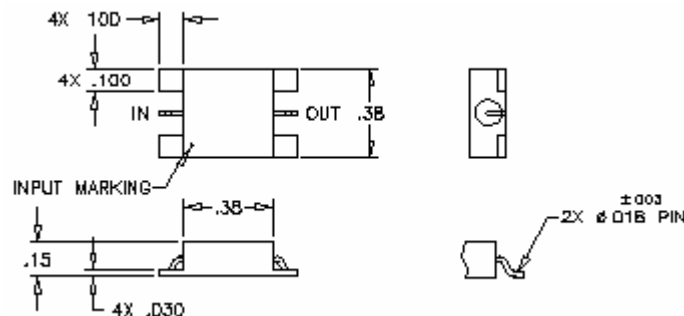
**Input/Output Connections:** .018 diameter pins

### To designate the detector desired use:

- (1) 401 for negative output, 402 for positive output      (2) -12 for 12.4 GHz option

**Example:** CR-401-12 is a .01-12.4 GHz, negative output detector.

### OUTLINE DRAWING



Specifications subject to change without notification.

Tolerances unless otherwise specified are .xx +/- .02, .xxx +/- .005

Specials requiring closer tolerances, different frequency ranges, special connectors different materials, finishes, etc. can be furnished upon request.



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