

Miniature Ultra-Flat Schottky Detectors



RLC Electronics' miniature ultra-flat 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 very low VSWR and a flat, smooth output over a wide bandwidth. Options available include negative or positive output, a choice of three output connectors and operation to 26.5 or 40 GHz.

Specifications CR-1-2-3

Frequency Range	.01-18.5GHz	.01-26.5 GHz (Option-26)	.01-40 GHz (Option-40)
Frequency Response (Max)			
.01-18 GHz	+/-0.5 dB	+/-0.5 dB	+/- .5 dB
.01-26.5 GHz	-----	+/-1 dB	+/-1.0 dB
.01-40 GHz	-----	-----	+/-1.5 dB
VSWR (Max)			
.01-12.4 GHz	1.25	1.25	1.25
12.4-18.5 GHz	1.50	1.50	1.50
18.5-26.5 GHz	-----	2.00	2.00
26.5-40 GHz	-----	-----	2.00
Typical Sensitivity (Pin < - 30 dBm)	0.5 mV/uW	0.5 mV/uW	0.5 mV/uW

Input Power: 100 mW maximum (peak or average)
Video Resistance: 5000 ohms nominal
Bias: None

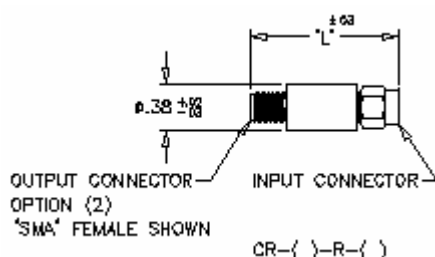
Input Connector Type: 'SMA' male, except 2.92mm for -40 option
Temperature Range: -55 deg C to +100 deg C

To designate the detector desired use:

- (1) 301 for negative output 302 for positive output
- (2) Output connector: R for 'SMA' female
B for 'BNC' female S for 'SMC' jack
- (3) 26 for 26.5 GHz option, 40 for 40 GHz option

Example: CR-301-R-26 is a .01-26.5 GHz, negative output detector with a 'SMA' female output connector.

OUTLINE DRAWING



OUTPUT CONNECTOR	OPTION (2)	'L'
'SMA' FEMALE	R	1.30
'BNC' FEMALE	B	1.50
'SMC' JACK	S	1.28

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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