



# KRYTAR®

## ZERO BIAS SCHOTTKY DETECTORS 100 MHz-20 GHz, 100 MHz-26.5 GHz AND 100 MHz-40 GHz DESIGNED FOR MIL ENVIRONMENTS



### SPECIFICATIONS

MODEL	FREQUENCY RANGE	FREQUENCY RESPONSE	MAXIMUM VSWR	OUTPUT CONNECTOR	DIMENSIONS
301A	100 MHz - 20 GHz	±0.5 dB	1.35	SMA Female	1.57 in. x 0.4 in. dia.
301B	100 MHz - 20 GHz	±0.5 dB	1.35	BNC Female	1.85 in. x 0.4 in. dia.
301S	100 MHz - 20 GHz	±0.5 dB	1.35	SMC Jack	1.45 in. x 0.4 in. dia.
302A	100 MHz - 26.5 GHz	±0.5 dB to 20 GHz ±0.8 dB to 26.5 GHz	1.35 to 20 GHz 1.5 to 26.5 GHz	SMA Female	1.57 in. x 0.4 in. dia.
302B	100 MHz - 26.5 GHz	±0.5 dB to 20 GHz ±0.8 dB to 26.5 GHz	1.35 to 20 GHz 1.5 to 26.5 GHz	BNC Female	1.85 in. x 0.4 in. dia.
302S	100 MHz - 26.5 GHz	±0.5 dB to 20 GHz ±0.8 dB to 26.5 GHz	1.35 to 20 GHz 1.5 to 26.5 GHz	SMC Jack	1.45 in. x 0.4 in. dia.
303A 303AK	100 MHz - 40 GHz	±0.5 dB to 20 GHz ±0.8 dB to 26.5 GHz ±1.5 dB to 40 GHz	1.35 to 20 GHz 1.5 to 26.5 GHz 2.0 to 40 GHz	SMA Female	1.57 in. x 0.4 in. dia.
303B 303BK	100 MHz - 40 GHz	±0.5 dB to 20 GHz ±0.8 dB to 26.5 GHz ±1.5 dB to 40 GHz	1.35 to 20 GHz 1.5 to 26.5 GHz 2.0 to 40 GHz	BNC Female	1.85 in. x 0.4 in. dia.
303S 303SK	100 MHz - 40 GHz	±0.5 dB to 20 GHz ±0.8 dB to 26.5 GHz ±1.5 dB to 40 GHz	1.35 to 20 GHz 1.5 to 26.5 GHz 2.0 to 40 GHz	SMC Jack	1.45 in. x 0.4 in. dia.

**LOW LEVEL SENSITIVITY**

0.5 mV/μW

**OUTPUT CAPACITANCE**

3.0 pF

**MAXIMUM INPUT**

100 mW

**OPERATING TEMPERATURE**

-54° to +100° C

**OUTPUT POLARITY**

Negative

For positive output, add "P" to end of Model Number.

**INPUT CONNECTOR**

Models 301A, 301B, 301S, 302A, 302B, 302S 3.5 mm Male

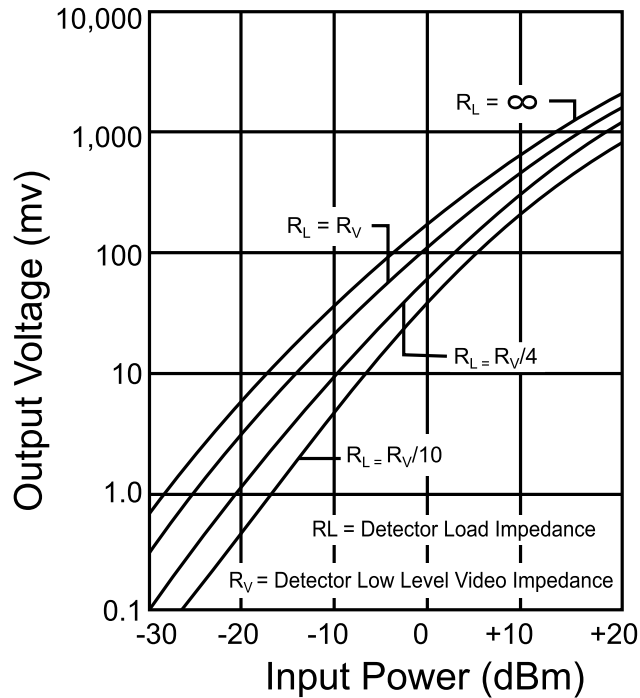
Models 303A, 303B, 303S 2.4 mm Male

Models 303AK, 303BK, 303SK 2.92 mm Male

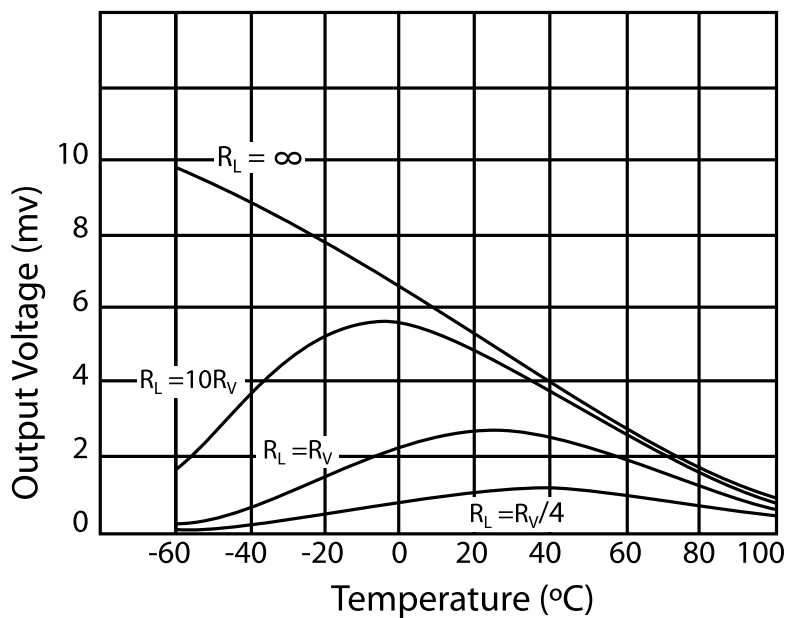


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## TYPICAL OUTPUT VOLTAGE vs. INPUT POWER CURVES FOR VARIOUS $R_L/R_V$ RATIOS at $T_a=20^\circ\text{C}$



## TYPICAL LOW LEVEL ( $P_{in} \leq -20$ dBm) OUTPUT RESPONSE vs. TEMPERATURE CURVES FOR VARIOUS $R_L/R_V$ RATIOS



Curves are normalized to  $R_L = \infty$  and  $T_a = 20^\circ\text{C}$ ,  $R_V$  corresponds to the load that drops the open circuit output voltage in half (3dB) at  $20^\circ\text{C}$ .