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

KRYTAR®

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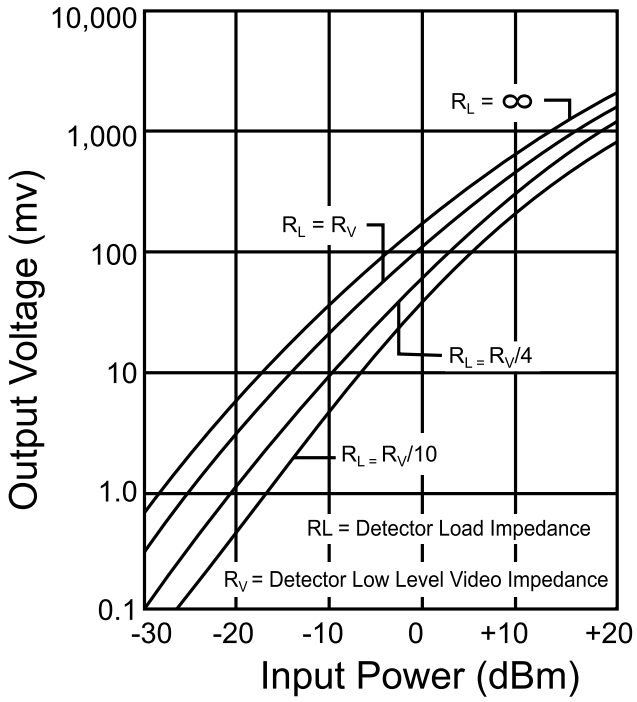
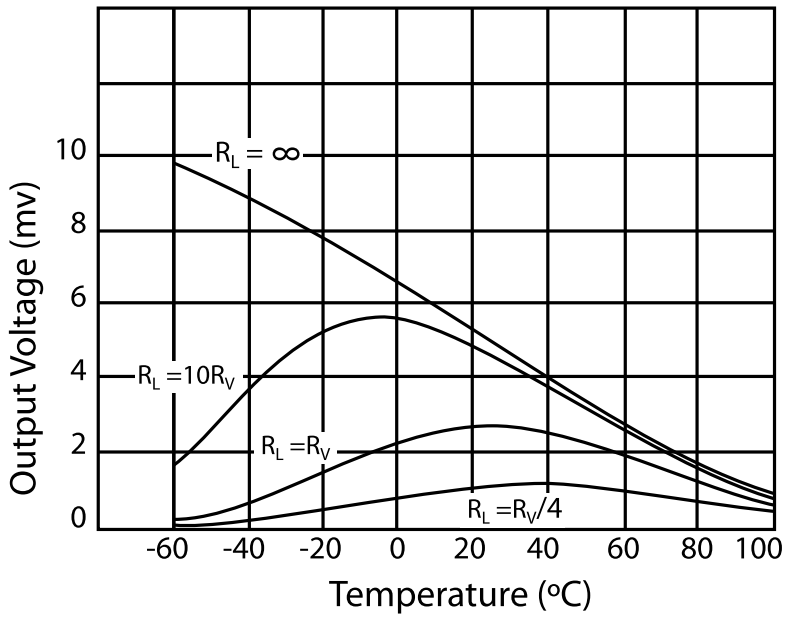
TYPICAL OUTPUT VOLTAGE vs. INPUT POWER CURVES FOR VARIOUS R_L/R_V RATIOS at T_a=20ºC



TYPICAL LOW LEVEL (Pin $\leq$ -20 dBm) OUTPUT RESPONSE vs. TEMPERATURE CURVES FOR VARIOUS R_L/R_V RATIOS



Curves are normalized to $R_L=\infty$ and T_a=20ºC, R_V corresponds to the load that drops the open circuit ouput voltage in half (3dB) at 20ºC.