KRYTAR®

ZERO BIAS SCHOTTKY DETECTORS
MODELS 109A, 109B & 109S
10 MHz-18.5 GHz

SPECIFICATIONS

MODEL	FREQUENCY RANGE	FREQUENCY RESPONSE	MAXIMUM VSWR	OUTPUT CONNECTOR	DIMENSIONS
109A	10 MHz - 18.5 GHz	±0.3 dB to 12.4 GHz ±0.6 dB to 18.5 GHz	1.15 to 4 GHz 1.3 to 15 GHz 1.4 to 18.5 GHz	SMA Female	2.24 in. x 0.83 in. dia.
109B	10 MHz - 18.5 GHz	±0.3 dB to 12.4 GHz ±0.6 dB to 18.5 GHz	1.15 to 4 GHz 1.3 to 15 GHz 1.4 to 18.5 GHz	BNC Female	2.51 in. x 0.83 in. dia.
109S	10 MHz - 18.5 GHz	±0.3 dB to 12.4 GHz ±0.6 dB to 18.5 GHz	1.15 to 4 GHz 1.3 to 15 GHz 1.4 to 18.5 GHz	SMC Jack	2.33 in. x 0.83 in. dia.

LOW LEVEL SENSITIVITY 0.5 mV/μW

OUTPUT CAPACITANCE 30 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 CONNECTORS N Male

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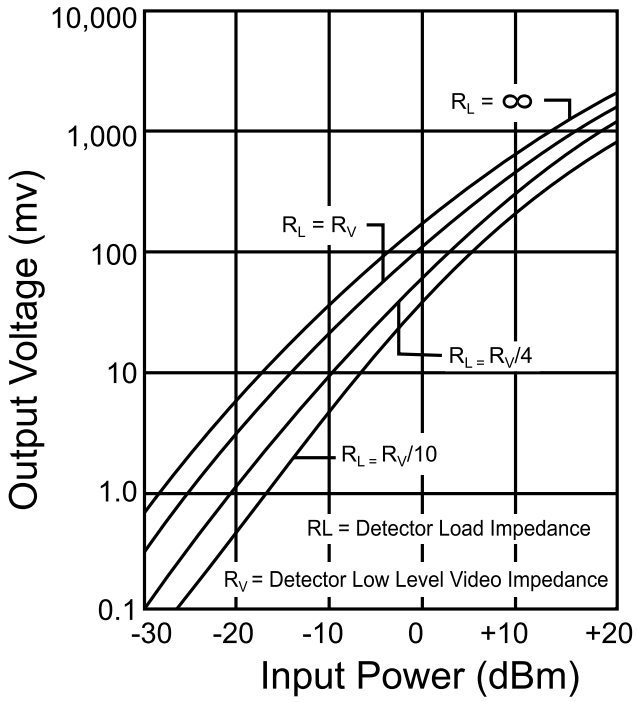
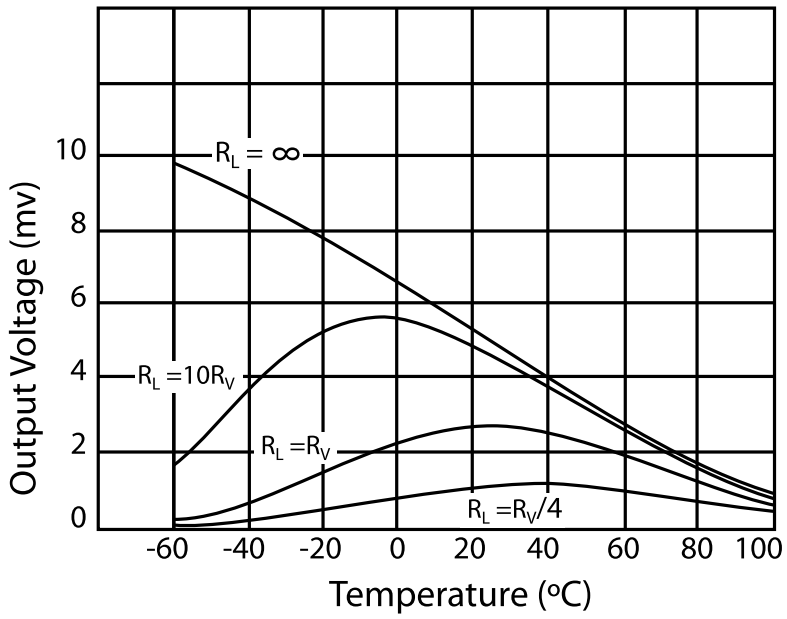
TYPICAL OUTPUT VOLTAGE vs. INPUT POWER CURVES FOR VARIOUS R_L/R_V RATIOS at T_a=20ºC



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.