



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

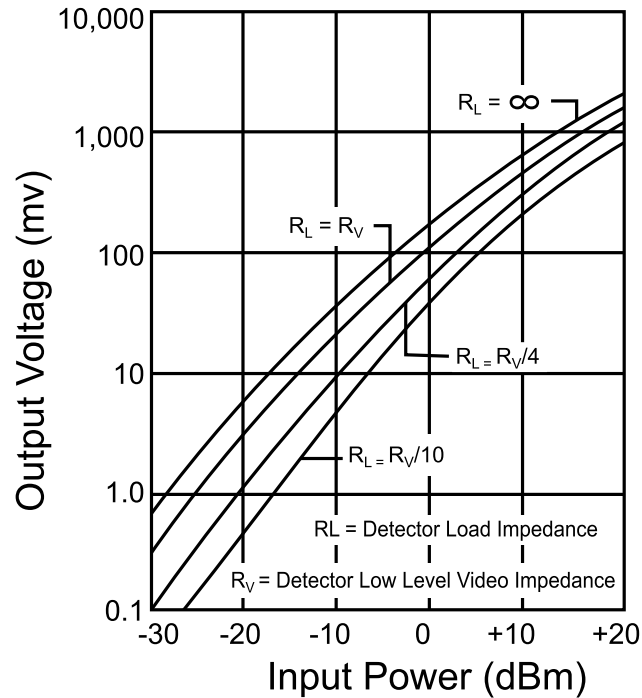
Negative

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

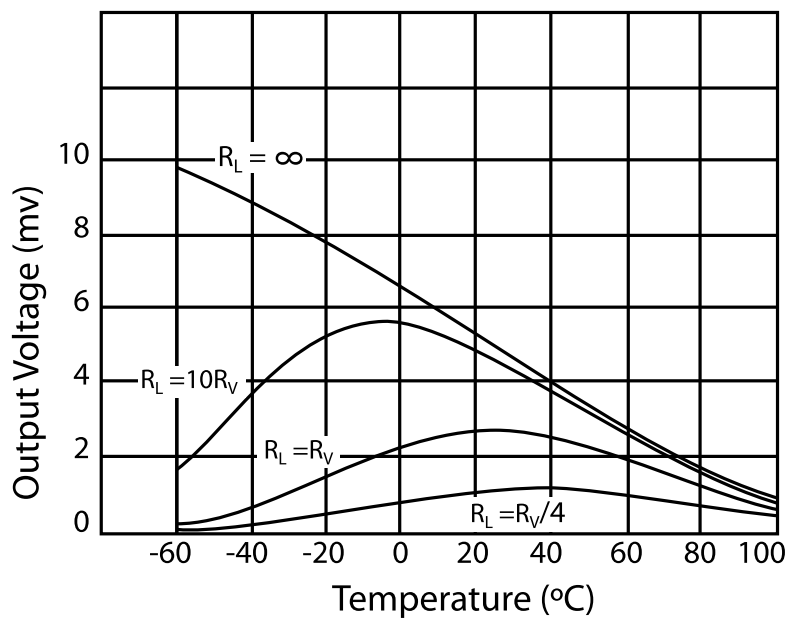
INPUT CONNECTORS

N Male

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°C .