



KRYTAR® PLANAR DOPED BARRIER DETECTORS

10 MHz-20 GHz, 10 MHz-26.5 GHz
AND 10 MHz-40 GHz



SPECIFICATIONS

MODEL	FREQUENCY RANGE	FREQUENCY RESPONSE	MAXIMUM VSWR	OUTPUT CONNECTOR	DIMENSIONS
601A	10 MHz - 20 GHz	±0.3 dB	1.3	SMA Female	1.57 in. x 0.4 in. dia.
601B	10 MHz - 20 GHz	±0.3 dB	1.3	BNC Female	1.85 in. x 0.4 in. dia.
601S	10 MHz - 20 GHz	±0.3 dB	1.3	SMC Jack	1.45 in. x 0.4 in. dia.
602A	10 MHz - 26.5 GHz	±0.3 dB to 20 GHz ±0.6 dB to 26.5 GHz	1.3 to 20 GHz 1.4 to 26.5 GHz	SMA Female	1.57 in. x 0.4 in. dia.
602B	10 MHz - 26.5 GHz	±0.3 dB to 20 GHz ±0.6 dB to 26.5 GHz	1.3 to 20 GHz 1.4 to 26.5 GHz	BNC Female	1.85 in. x 0.4 in. dia.
602S	10 MHz - 26.5 GHz	±0.3 dB to 20 GHz ±0.6 dB to 26.5 GHz	1.3 to 20 GHz 1.4 to 26.5 GHz	SMC Jack	1.45 in. x 0.4 in. dia.
603A 603AK	10 MHz - 40 GHz	±0.3 dB to 20 GHz ±0.6 dB to 26.5 GHz ±1.0 dB to 40 GHz	1.3 to 20 GHz 1.4 to 26.5 GHz 1.7 to 40 GHz	SMA Female	1.57 in. x 0.4 in. dia.
603B 603BK	10 MHz - 40 GHz	±0.3 dB to 20 GHz ±0.6 dB to 26.5 GHz ±1.0 dB to 40 GHz	1.3 to 20 GHz 1.4 to 26.5 GHz 1.7 to 40 GHz	BNC Female	1.85 in. x 0.4 in. dia.
603S 603SK	10 MHz - 40 GHz	±0.3 dB to 20 GHz ±0.6 dB to 26.5 GHz ±1.0 dB to 40 GHz	1.3 to 20 GHz 1.4 to 26.5 GHz 1.7 to 40 GHz	SMC Jack	1.45 in. x 0.4 in. dia.

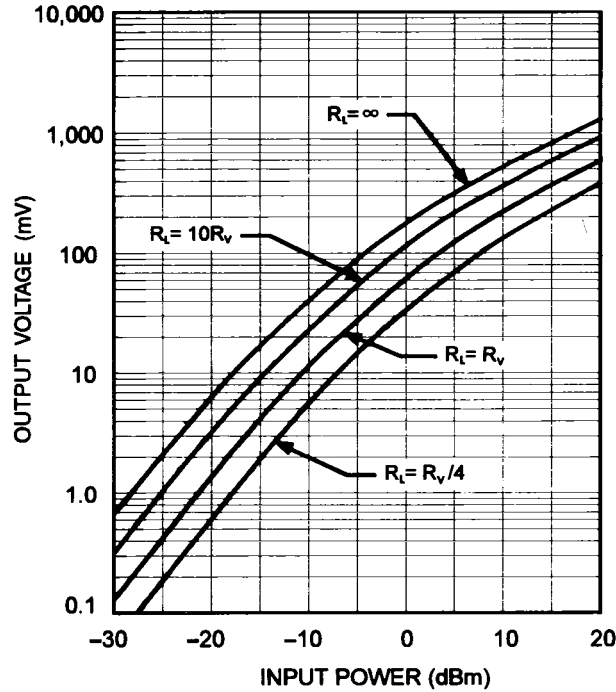
LOW LEVEL SENSITIVITY 0.5 mV/μW
 VIDEO IMPEDANCE 0.8 - 7.5 KΩ
 OUTPUT CAPACITANCE 30 pF
 MAXIMUM INPUT 200 mW
 OPERATING TEMPERATURE -54° to +100° C

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

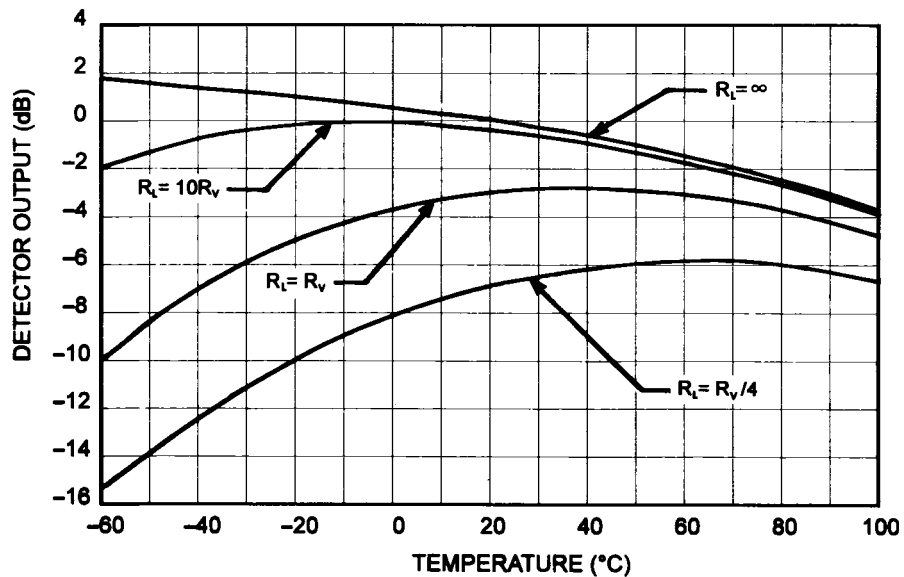
INPUT CONNECTOR
 Models 601A, 601B, 601S, 602A, 602B, 602S 3.5 mm Male
 Models 603A, 603B, 603S 2.4 mm Male
 Models 603AK, 603BK, 603SK 2.92 mm Male



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 .