



# KRYTAR®

## PLANAR DOPED BARRIER DETECTORS

10 MHz-20 GHz, 10 MHz-26.5 GHz,  
10 MHz-40 GHz, AND 10 MHz-50 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.
604A	10 MHz - 50 GHz	±0.3 dB to 20 GHz ±0.6 dB to 26.5 GHz ±1.0 dB to 40 GHz ±3.0 dB to 50 GHz	1.3 to 20 GHz 1.4 to 26.5 GHz 1.7 to 40GHz 2.8 to 50 GHz	SMA Female	1.57 in. x 0.4 in. dia.
604B	10 MHz - 50 GHz	±0.3 dB to 20 GHz ±0.6 dB to 26.5 GHz ±1.0 dB to 40 GHz ±3.0 dB to 50 GHz	1.3 to 20 GHz 1.4 to 26.5 GHz 1.7 to 40GHz 2.8 to 50 GHz	BNC Female	1.85 in. x 0.4 in. dia.
604S	10 MHz - 50 GHz	±0.3 dB to 20 GHz ±0.6 dB to 26.5 GHz ±1.0 dB to 40 GHz ±3.0 dB to 50 GHz	1.3 to 20 GHz 1.4 to 26.5 GHz 1.7 to 40GHz 2.8 to 50 GHz	SMC Female	1.45 in. x 0.4 in. dia.

LOW LEVEL SENSITIVITY 0.4 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.

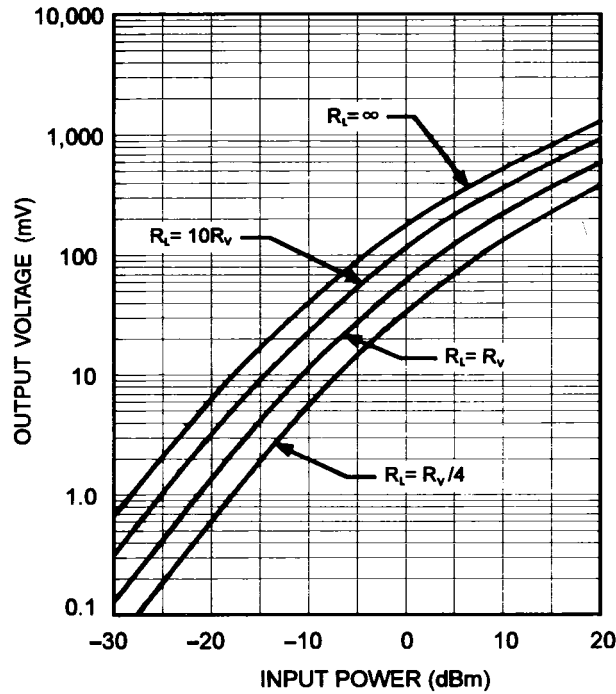
**INPUT CONNECTOR**  
 Models 601A, 601B, 601S, 602A, 602B, 602S 3.5 mm Male  
 Models 603A, 603B, 603S, 604A, 604B, 604S 2.4 mm Male  
 Models 603AK, 603BK, 603SK 2.92 mm Male



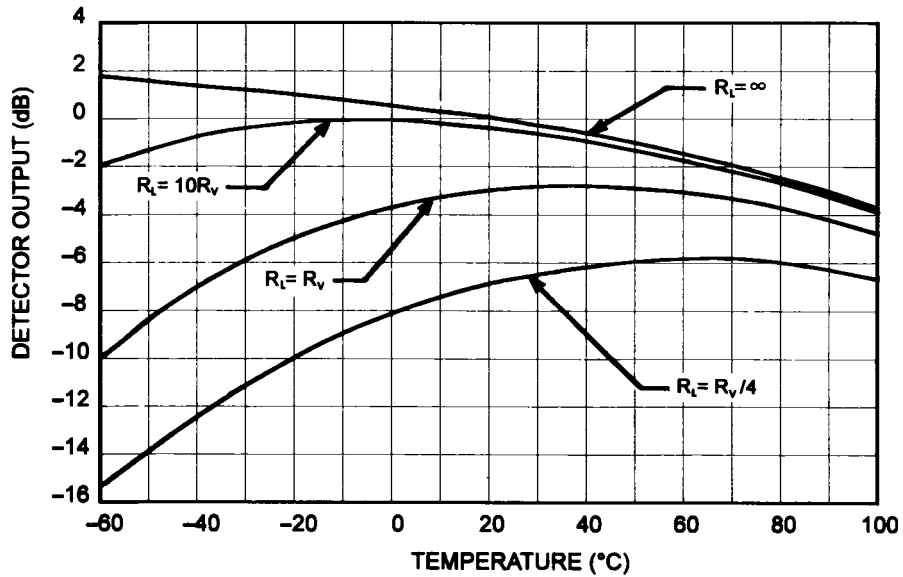
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# PLANAR DOPED BARRIER DETECTORS

## 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  $20^\circ\text{C}$ .