



KRYTAR® PLANAR DOPED BARRIER DETECTORS

100 MHz-20 GHz, 100 MHz-26.5 GHz
AND 100 MHz-40 GHz



SPECIFICATIONS

MODEL	FREQUENCY RANGE	FREQUENCY RESPONSE	MAXIMUM VSWR	OUTPUT CONNECTOR	DIMENSIONS
701A	100 MHz - 20 GHz	±0.3 dB	1.3	SMA Female	1.57 in. x 0.4 in. dia.
701B	100 MHz - 20 GHz	±0.3 dB	1.3	BNC Female	1.85 in. x 0.4 in. dia.
701S	100 MHz - 20 GHz	±0.3 dB	1.3	SMC Jack	1.45 in. x 0.4 in. dia.
702A	100 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.
702B	100 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.
702S	100 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.
703A 703AK	100 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.
703B 703BK	100 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.
703S 703SK	100 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.

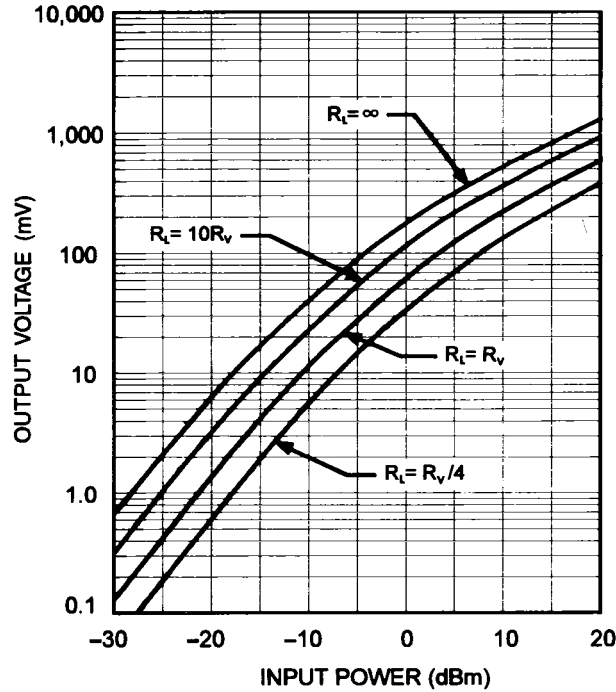
LOW LEVEL SENSITIVITY 0.5 mV/μW
VIDEO IMPEDANCE 0.8 - 7.5 KΩ
OUTPUT CAPACITANCE 3.0 pF
MAXIMUM INPUT 200 mW
OPERATING TEMPERATURE -54° to +100° C

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

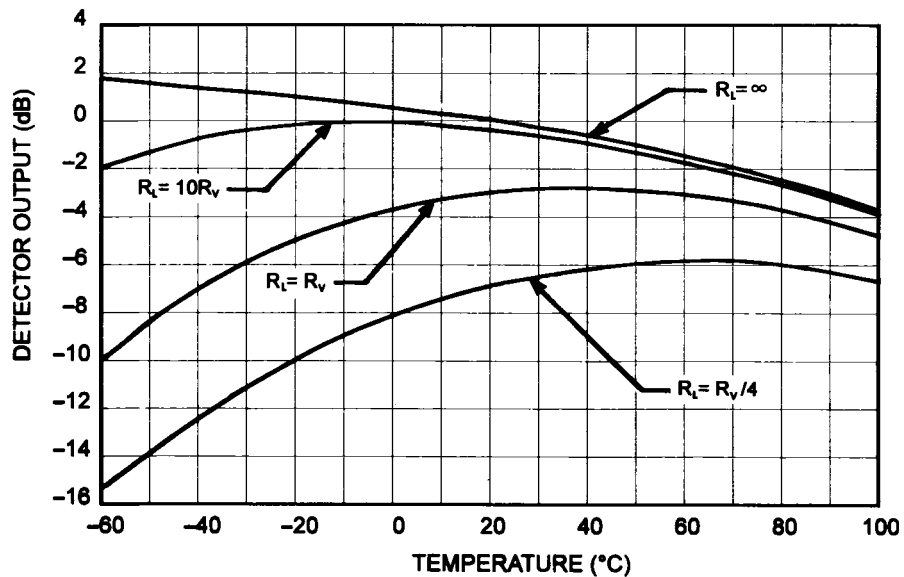
INPUT CONNECTOR
 Models 701A, 701B, 701S, 702A, 702B, 702S 3.5 mm Male
 Models 703A, 703B, 703S 2.4 mm Male
 Models 703AK, 703BK, 703SK 2.92 mm Male



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 .