

BIAS VOLTAGE (Vb+ AND Vb-) TABLE*

DETECTOR SIZE	PbSe CHEMISTRY	
2mm x 2mm	Vb+ = 50V	Vb- = 0V

*RECOMMENDED FOR BEST PERFORMANCE

SPECIFICATION TABLE

SPECIFICATION	MIN	TYP	MAX
DETECTOR SIZE		2 x 2mm	
DETECTOR LOAD RESISTOR		1M Ω	
GAIN		10	
INPUT TIME CONSTANT		150ms	
RADIATION INTENSITY: PbSe	10 ⁻⁶ W/cm ²		10 ⁻³ W/cm ²
SOURCE MODULATION FREQUENCY	10Hz	100Hz, 500Hz	825Hz
Vb+ - Vb- PbSe		50-70VDC	100VDC
THERMISTOR (25°C)(10uV-100uV INPUT)		10K Ω	
TEC VOLTAGE			2.4-3VDC
TEC CURRENT			1.3A
OPERATING TEMPERATURE	-20°C		+65°C
OP AMP SUPPLY VOLTAGE +Vcc,-Vcc		$\pm 15V$	$\pm 20V$
OP AMP SUPPLY CURRENT		2pA	20pA
OUTPUT TO INSTRUMENT Vo		10-1000uV	

Vo=0-1000uVAC OUTPUT TO INSTRUMENT

(BAND PASS TO MATCH SOURCE MODULATION FREQUENCY)

PIN FUNCTION TABLE

PIN NO.	FUNCTION	COLOR
1	TE COOLER (-)	BLACK
2	NC	
3	CASE	WHITE
4	TE COOLER (+)	RED
5	Vo	BLUE
6	GND	GREEN
7	Vb-	BLACK
8	NC	
9	THERMISTOR	YELLOW
10	NC	
11	NC	
12	THERMISTOR	YELLOW
13	NC	
14	Vb+	BROWN
15	-Vcc	BLACK
16	+Vcc	RED

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= ^{+DECIMAL PRECISION} _{-0.00} MAX.= ^{+0.00} _{-DECIMAL PRECISION}



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INTEGRATED DETECTOR ASSEMBLY

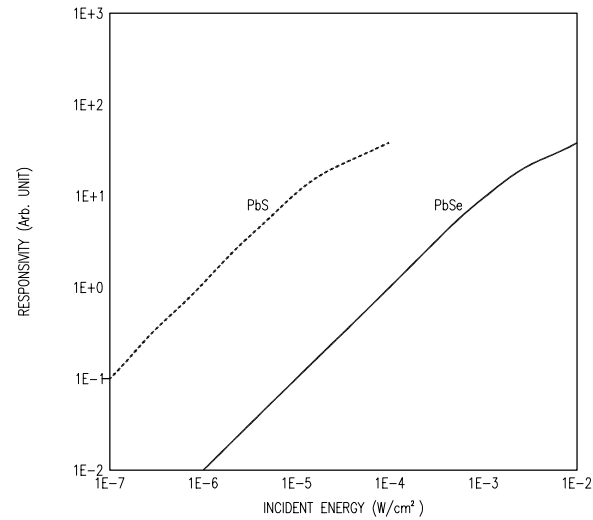
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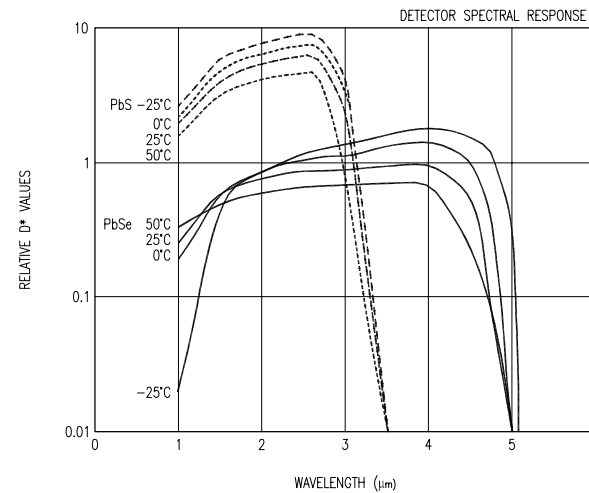
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RESPONSIVITY vs. INCIDENT ENERGY



DETECTIVITY vs. WAVELENGTH



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