



SPECIFICATIONS

STANDARD SPECIFICATIONS: ELECTRICAL
 ALL DETECTOR SPECIFICATIONS ARE AT A BIAS VOLTAGE OF 25V/mm DISTANCE BETWEEN ELECTRODES APPLIED ACROSS THE DETECTOR AND WITH A LOAD RESISTOR IN SERIES. ALL SPECIFICATIONS APPLY AT OR NEAR MAXIMUM COOLING W/HEAT SINK AT +25°C. TYPICAL COOLER POWER AT MAX. COOLING 1.9V AT 1.4A.

	MIN.	TYP.	MIN.	UNITS
WAVELENGTH OF MAX. RESPONSE	4.3	4.5		μm
$D^*(500\text{K}, 1000\text{Hz}, 1\text{Hz})$	2.9×10^9	5.2×10^9		$\text{cm Hz}^2 \text{W}^{-1}$
$D^*(\text{pk}, 1000\text{Hz}, 1\text{Hz})$	2.0×10^{10}	3.5×10^{10}		$\text{cm Hz}^2 \text{W}^{-1}$
ELEMENT RESISTANCE (DARK)	1	6	20	$\text{M}\Omega/\text{sq.}$
TIME CONSTANT (NOT MEASURED)		12	25	μs
RATED ELEMENT TEMP.			55	$^{\circ}\text{C}$
ELEMENT SIZE		2x2		mm
RESPONSIVITY (pk, 650) vw^{-1}	5.0×10^4	7.5×10^4		
AMBIENT TEMP.		25		$^{\circ}\text{C}$
DETECTOR OPER. TEMP.		-25		$^{\circ}\text{C}$
OPERATING TEMP.		-50		$^{\circ}\text{C}$

PIN FUNCTION TABLE

PIN NO.	FUNCTION	COLOR
1	COOLER (-)	BLACK
4	COOLER (+)	RED
9	DETECTOR	WHITE
10	THERMISTOR	YELLOW
11	THERMISTOR	YELLOW
12	DETECTOR	WHITE

*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= $\begin{matrix} +\text{DECIMAL PRECISION} \\ -0.00 \end{matrix}$ MAX= $\begin{matrix} +0.00 \\ -\text{DECIMAL PRECISION} \end{matrix}$



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HP COOLED PbSe 2x2

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

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DATE:	02.11.11	DRAWN BY:	AB
PAGE:	1 OF 1	CHKD BY:	KF
SCALE:	NTS	APRVD BY:	BC
UNIT:	mm [INCH]		