



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.

	MIN.	TYP.	MAX.	UNITS
WAVELENGTH OF MAX. RESPONSE	4	4.2		$\mu\text{m}$
$D^*(500\text{K}, 1000\text{Hz}, 1\text{Hz})$	$1.9 \times 10^8$	$3.9 \times 10^8$		$\text{cm Hz}^2 \text{W}^{-1}$
$D^*(\text{pk}, 1000\text{Hz}, 1\text{Hz})$	$1.4 \times 10^{10}$	$2.8 \times 10^{10}$		$\text{cm Hz}^2 \text{W}^{-1}$
ELEMENT RESISTANCE (DARK)	0.5	4	10	$\text{M}\Omega/\text{sq.}$
TIME CONSTANT (NOT MEASURED)		6	12	$\mu\text{s}$
RATED ELEMENT TEMP.			85	$^\circ\text{C}$
DT @/OR NEAR MAX. COOLING	45	50		$^\circ\text{C}$
ELEMENT SIZE		2x2		mm
RESPONSIVITY (pk, 650) $\text{vw}^{-1}$	$2.0 \times 10^4$	$3.0 \times 10^4$		
AMBIENT TEMP./DETECTOR OPER. TEMP.		25		$^\circ\text{C}$
DETECTOR OPER. TEMP.		-25		$^\circ\text{C}$

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



290 E. HELEN ROAD  
 PALATINE, IL 60067-6976  
 PHONE: +1.847.359.2790  
 FAX: +1.847.359.6538  
 WEB: WWW.LUMEX.COM

COOLED PbSe 2x2

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

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SCALE:	NTS	APRVD BY:	BC
UNIT:	mm [INCH]		

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