



SPECIFICATIONS

STANDARD SPECIFICATIONS: ELECTRICAL  
 ALL DETECTOR SPECIFICATIONS ARE AT A BIAS VOLTAGE OF 50V/MM DISTANCE BETWEEN ELECTRODES APPLIED ACROSS THE DETECTOR AND WITH A 1MΩ LOAD RESISTOR IN SERIES. ALL SPECIFICATIONS APPLY AT OR NEAR MAXIMUM COOLING WITH THE HEAT SINK AT +25°C. TYPICAL COOLER POWER AT MAX. COOLING 1.9V AT 1.4A.

	MIN.	TYP.	MIN.	UNITS
WAVELENGTH OF MAX. RESPONSE	2.6	2.7		μm
D*(500K, 650Hz, 1Hz)	2.2x10 <sup>9</sup>	3.3x10 <sup>9</sup>		cm Hz <sup>2</sup> W <sup>-1</sup>
D*(1pk, 650Hz, 1Hz)	2.0x10 <sup>11</sup>	3.0x10 <sup>11</sup>		cm Hz <sup>2</sup> W <sup>-1</sup>
ELEMENT RESISTANCE (DARK)	3	6	20	MΩ/sq.
TIME CONSTANT (NOT MEASURED)		1750	3500	μs
RATED ELEMENT TEMP.			65	°C
DT @/OR NEAR MAX. COOLING	70	75		°C
ELEMENT SIZE		3x3		mm
RESPONSIVITY (1pk, 650) vw-1	4.3x10 <sup>5</sup>	6.5x10 <sup>5</sup>		
AMBIENT TEMP./DETECTOR OPER. TEMP.		25		°C
DETECTOR OPER. TEMP.		-25		°C
OPERATING TEMP.		45		°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.= <sup>+0.00</sup>DECIMAL PRECISION <sub>-0.00</sub> DECIMAL PRECISION



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HP COOLED PbS 3x3

\*\*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]		Ⓟ