

PbS 3 Watt Cooled Photoconductive IR Detectors

TE Cooled Infrared Detectors with Fast Response and Ultra-High Sensitivity in the 1 – 3.3 um Wavelength Band



Ambient Temperature:	+25°C	
Detector Operating Temperature:	see model types below	
Typical Cooler Power at or near Max. Cooling:	1.8 volts @ 1.2 amps	

Standard Specifications – Electrical

All detector specifications are at a bias voltage of 50 V/mm distance between electrodes applied across the detector and with a one MegOhm load

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resistor in series. All specifications apply at or near maximum cooling with the heat sink @ +25°C.				
	Minimum	Typical	Maximum	Units
Wavelength of Max. Response	2.6	2.7		μm
D*(λpk, 630 Hz, 1 Hz)	2.0 x 10 ¹¹	3.0 x 10 ¹¹		cm $Hz^{1/2}$ w ⁻¹
Element Resistance (Dark)	2.0	6.0	20.0	MegOhm
Time Constant (not typically measured)		1750	3500	μsec
Rated Element Temperature			+65	°C
Delta T at or near Max. Cooling	70	75		°C

When using the table below, remo	ve parenthesis and insert a	appropriate designation	for package type in the space	e. Example: 6 for TO	D-66 , 8 for TO-8.
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Model Number Element Size(mm)	Element	Responsivity (l _{pk} , 630) v/w		On such a Terrer	Standard Dashara Ordana	
	Size(mm)	Minimum	Typical	Operating Temp	Standard Package Options	
A1-()C4T	1 x 1	1,400,000	2,100,000	-50°C	ТО-66, ТО-8	
A2-()C4T	2 x 2	700,000	1,100,000	-50°C	ТО-66, ТО-8	
A3-()C4T	3 x 3	430,000	650,000	-45°C	ТО-66, ТО-8	
A6-()C2T	6 x 6	240,000	360,000	-25°C	ТО-66, ТО-8	
* Minimum D*(l_{pk} , 630, 1) >1.5 x 10 ¹⁰ cm Hz ^{1/2} w ⁻¹ *						

 $(1_{pk}, 0.50, 1) > 1.5 \times 10^{-5} \text{ cm}$

To specify thermistor option for all TE cooled detectors, add the suffix -T or -TC (calibrated) to the model number.

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