

## **PbS 2 Watt Cooled Photoconductive IR Detectors**

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



Ambient Temperature:	+25°C	
Detector Operating Temperature	-35°C	
Typical Cooler Power at or near Max. Cooling:	0.9 volts @ 1.2 amps	

iSweek www.isweek.com

Add: 16/F, Bldg. #3, Zhongke Mansion, No.1 Hi-Tech S. Rd, Hi-Tech Park South, Shenzhen, Guangdong, 518067 P.R.China

Tel: + 86-755-83289036 Fax: + 86-755-83289052 E-mail: sales@isweek.com



## **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 resistor in series. All specifications apply at or near maximum cooling with the heat sink  $@+25^{\circ}$ C.

	Minimum	Typical	Maximum	Units
Wavelength of Max. Response	2.4	2.5		μm
D*(λpk, 630 Hz, 1 Hz)	1.0 x 10 <sup>11</sup>	1.5 x 10 <sup>11</sup>		cm Hz <sup>1/2</sup> w <sup>-1</sup>
Element Resistance (Dark)	2.0	3.0	15.0	MegOhm
Time Constant (not typically measured)		1200	2500	μsec
Rated Element Temperature			+65	°C
Delta T at or near Max. Cooling	55	60		°C

When using the table below, remove parenthesis and insert appropriate designation for package type in the space. Example: 7 for TO-37, 8 for TO-8.

Model Number	Element Size (mm)	Responsivity (lpk, 630) v/w		Standard Poolvage Ontions	
		Minimum	Typical	Standard Package Options	
A1-( )C3T	1 x 1	1,300,000	2,000,000	TO-37, TO-8	
A2-( )C3T	2 x 2	660,000	1,000,000	TO-37, TO-8	
A3-( )C3T	3 x 3	430,000	640,000	TO-37, TO-8	

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

iSweek www.isweek.com

Add: 16/F, Bldg. #3, Zhongke Mansion, No.1 Hi-Tech S. Rd, Hi-Tech Park South, Shenzhen, Guangdong, 518067 P.R.China

Tel: + 86-755-83289036 Fax: + 86-755-83289052 E-mail: sales@isweek.com