



# PbS TE Cooled

## LEAD SULFIDE DETECTOR

THERMOELECTRICALLY COOLED DETECTORS - SERIES D-D2-D21

### FEATURES

- › Hermetically Sealed Packages
- › Custom Wavelength Response
- › Custom Test Procedure
- › Custom Design Services
- › 2 Year Warranty
- › Filters Available

### HOW TO ORDER

Select the proper electrical type (D, D21), and match it with the proper mechanical and package code number. Example: D-3-8, D2-1-37, D21-3-8. The active areas listed are considered standard sizes. Special sizes are available upon request.

### ELECTRICAL SPECIFICATIONS

Test Conditions at 25° C -Typical	D	D2	D21
D* (Pk.,600,1) x 10 <sup>11</sup>	1.5	2.5	2.8
Peak Wavelength Response - Microns	2.5	2.6	2.7
Time Constant - Milliseconds Typ	800	1200	1800
Resistance - Megohms	2-10	2-12	2-15

### ACTIVE AREA SPECIFICATIONS

Code Number	Active Area		Bias Voltage Typical	Typical VW-1X1 <sup>5</sup> Responsivity			Package Size
	Inches	mm		-25	-35	-50	
1	.040	1	50	.9-1x10 <sup>6</sup>	1-2x10 <sup>6</sup>	1.5-2.5x10 <sup>6</sup>	TO-5-37-8-66
2	.080	2	100	6-9x10 <sup>5</sup>	.6-1x10 <sup>6</sup>	0.6-1.2x10 <sup>6</sup>	TO-5-37-8-66
3	.120	3	150	4-6x10 <sup>5</sup>	4-6x10 <sup>5</sup>	4-6x10 <sup>5</sup>	TO-5-37-8-66
5	.200	5	250	2-4x10 <sup>5</sup>	NA	2-4x10 <sup>5</sup>	TO-8-66
10	.400	10	500	1-2x10 <sup>5</sup>	NA	NA	TO-3

### MECHANICAL SPECIFICATIONS

