Mid Infrared Detector 1 - 3 µm

3 µm

(Lead Sulfide, Build-in Chopper)

DATASHEET

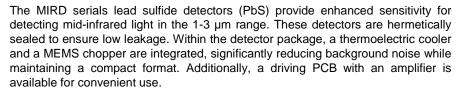


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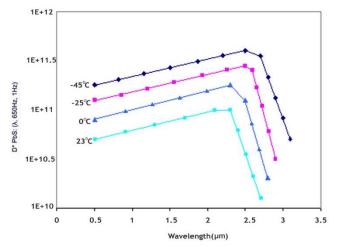
Features

- 🗖 1-3μm
- Low Noise
- Long Life
- Hermetic Sealed Detector
- MEMS Chopper Integration



All stock detectors undergo a minimum four-week aging period. Experience with detectors manufactured through our proprietary process, which includes the aforementioned aging period, has shown the electrical characteristics to remain stable to within 10% for over a year. The typical response for PbS detectors operates in the 0.5 to 3 micron spectral region with time constants below 400 µsec. TE-cooled packages are also available with a response in the 0.5 to 3 micron region, featuring increased D*.

A typical spectral response of a standard PbS detector is depicted below.



Specifications

Parameter	Min	Typical	Max	Unit
Resistance	0.5		2.0	MΩ
Time Constant	200		400	μ sec
D* (λ, 200, 1) x 10 ¹¹	0.5		0.6	cm∙Hz ^½ ∙W ^{−1}
Cooling	-40		-5	°C

E sales@photonwares.com

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781-935-1200

Applications

- OEM
- Lab user
- Instruments
- Fire Detections

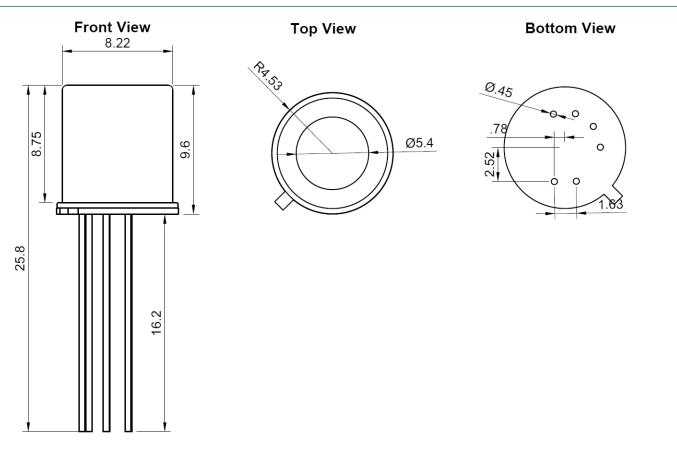
Mid Infrared Detector 1 - 3 µm



(Lead Sulfide, Build-in Chopper)

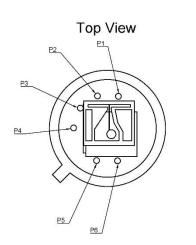
DATASHEET

Mechanical Dimensions (mm)

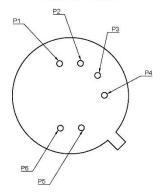


*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Contacts Assignment



Bottom View



PIN NUMBER	ASSIGNMENT		
P1	VOA ; Thermistor		
P2	VOA ; Thermistor		
P3	TEC (-)		
P4	TEC (+)		
P5	PbS		
P6	PbS		

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Ordering Information

	3			1			
Prefix	Material Type	TEC Type	Package	Element Size	Window	AR Coated	Driver
MIRD-	PbS =3	1 stage 0°C = 1 2 stage -20°C = 2 3 stage -40°C = 3	TO-5 = 5 Box = B	1x1mm = 1	Quartz = 1 Spectral Filter = S Sapphire = 2	No = 0 Yes = 1	No = 00 Yes = 11

Application Notes

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