

Electro Optical Components, Inc.

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PbSe near-infrared detector Double encapsulated TO-package

trinamiX

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Features

- Double encapsulation (thin-film + TO)
- High durability for rugged operation
- Sapphire window

Applications

- Gas analysis
- Spectroscopy
- Process control
- Temperature control

Specification

Type No.	Package	Active area [mm x mm]	Operating temperature [°C]	Storage temperature [°C]
PbSe020020TO5	TO5	2 x 2	-30 to +90	-55 to +90

Electrical and optical characteristics

Type No.	Element	Peak	20%	Peak responsivity	Peak D*	Time	Dark
	temperature	wave-	cut-off	S [V/W]@50V/mm	(620 Hz, 1 Hz)	Constant	resistance
	[°C]	length	wavelength		[cm·Hz ^½ /W]	[µs]	$R_D [M\Omega]$
		λP	λ _c [μm]	Min.	Min.	Тур.	
		[µm]					
PbSe020020TO5	22	3.8	4.5	$1 \cdot 10^4$	2 · 10 ⁹	4	0.1 - 3

• Measured with 500K blackbody

• Measured in a voltage divider circuit with 50 V/mm

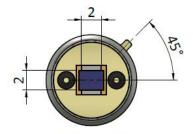
• Photo responsivity and detectivity are measured with constant load resistance ($R_L = 1 M\Omega$) and calculated for matched resistance

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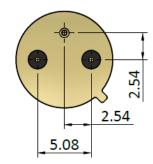


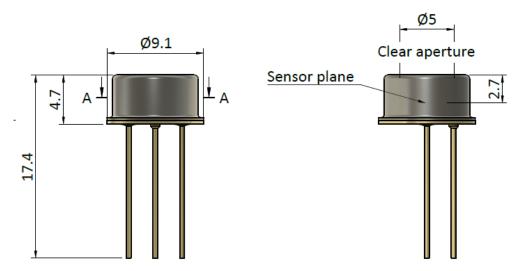
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Mechanical outline



Section A-A





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