



Electro Optical Components, Inc.

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Infrared Radiation Source JSIR350-2-AL-C-D5.8-0-0

Fast radiation source for use with thermopiles and pyroelectric detectors in NDIR gas analysis and other applications.

Spectral Output Range ¹	typ. 1 ... 15	μm
Active Area	1.7 x 1.7	mm ²
Hot Resistant	50±15	Ω
Temperature Coefficient	typ. 100	ppm/K
Time Constant	typ. 15	ms
Nominal Power Consumption	0.7	W
Operation Voltage ²	typ. 5.9	V
Operation Current ²	typ. 118	mA
Active Area Temperature ^{3,5}	605	°C
Window	-	
Mass	~1	g
Housing	T039 (modified)	
Lifetime ⁴	> 10,000 h at 700°C > 100,000 h at 600°C	

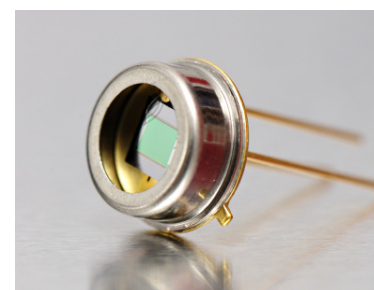
¹ without window

² with 50Ω

³ at nominal power (0.7W)

⁴ at 10 Hz, 50% duty cycle

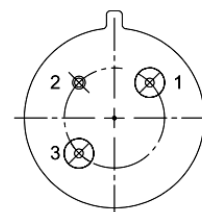
⁵ at T_{amb} = 25°C



Pin Assignment

Bottom View

Pin 1 Power
Pin 2 Case
Pin 3 Power

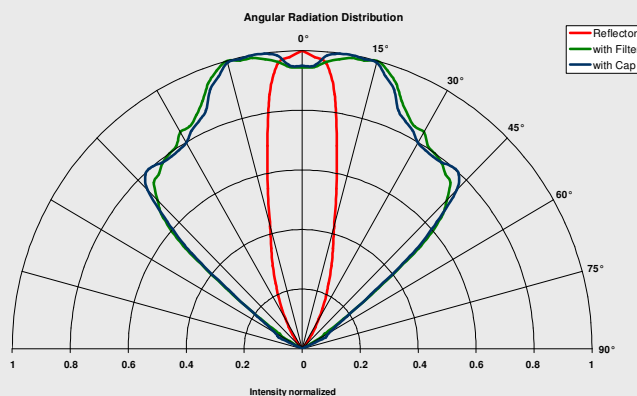
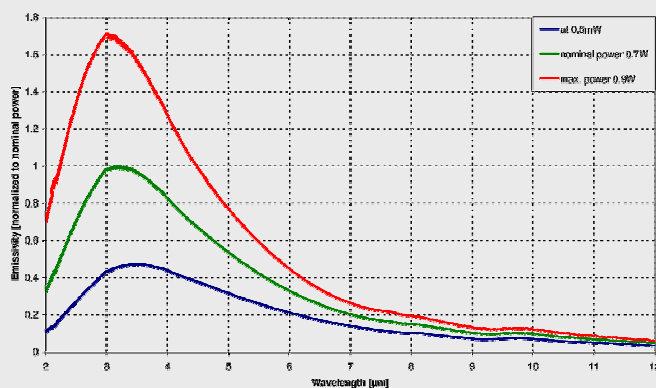
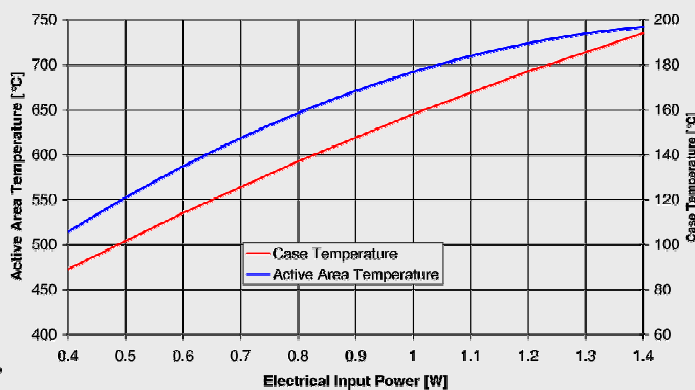
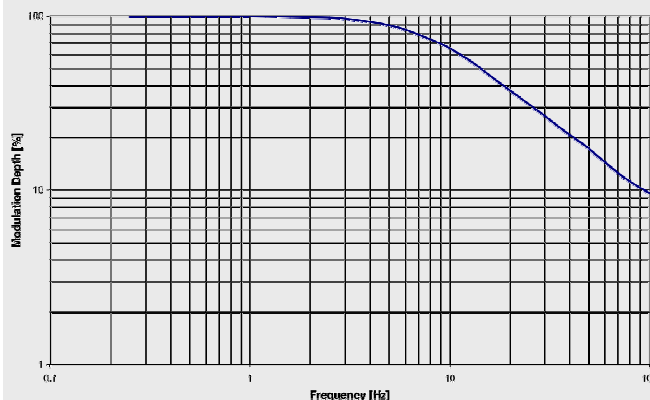


Absolute Max. Ratings

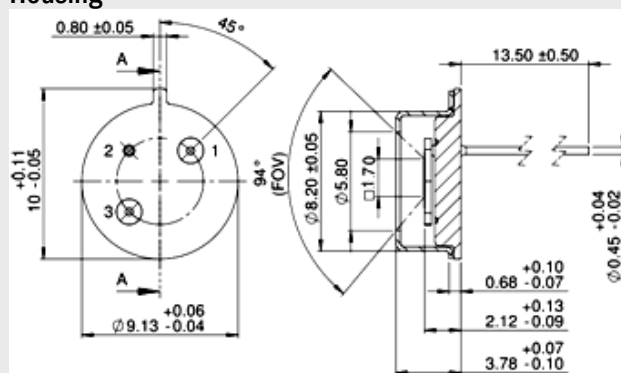
Power	0.9	W
Housing temperature	180	°C
Active Area Temperature	750	°C

The current data are based on simulations and tests. They are subject to change during the next evaluation steps.

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Housing



Optional parts

Reflector - For bunching of radiation

Window - For hermetic sealing and / or spectral narrowing of the radiation

Evaluation Kit - For independent evaluation of emitters and detectors