



Infrared Radiation Source JSIR350-5-AL-C-D2.55-0-0

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

Spectral Output Range ¹	typ. 1 ... 20	μm
Active Area	0.65 x 0.65	mm ²
Hot Resistant	40±20	Ω
Temperature Coefficient	typ. 650	ppm/K
Time Constant	typ. 7	ms
Nominal Power Consumption	0.25	W
Operation Voltage ²	typ. 3.2	V
Operation Current ²	typ. 79	mA
Active Area Temperature ^{3,5}	640	°C
Window	-	
Mass	~1	g
Housing	T046 (modified)	
Lifetime ⁴	> 5,000 h at 740°C > 100,000 h at 640°C	

¹ without window

² with 40Ω

³ at nominal power (0.2W)

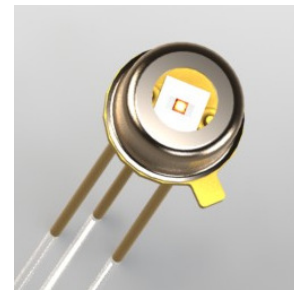
⁴ at 10 Hz, 50% duty cycle, preliminary results

⁵ at T_{amb} = 25°C

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



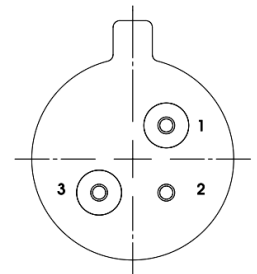
MICRO-HYBRID



Pin Assignment

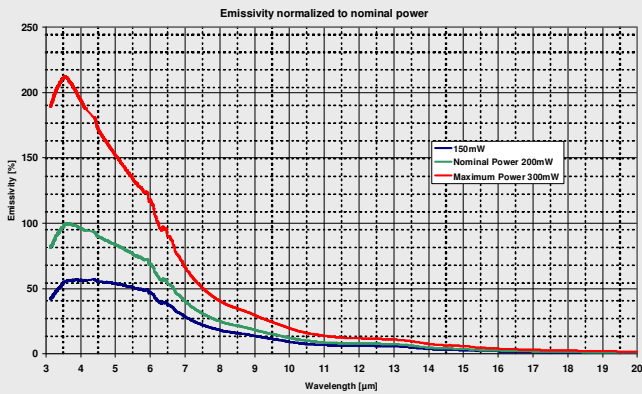
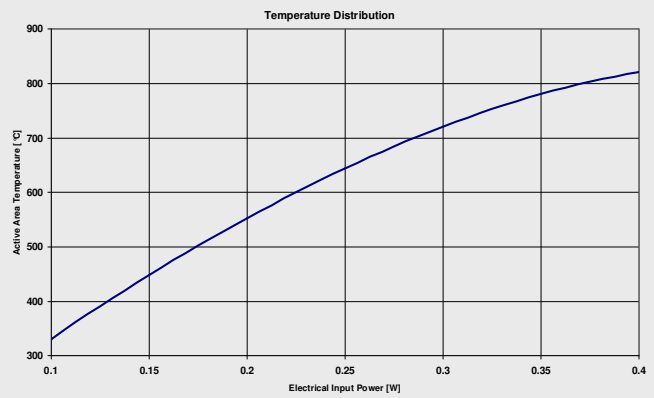
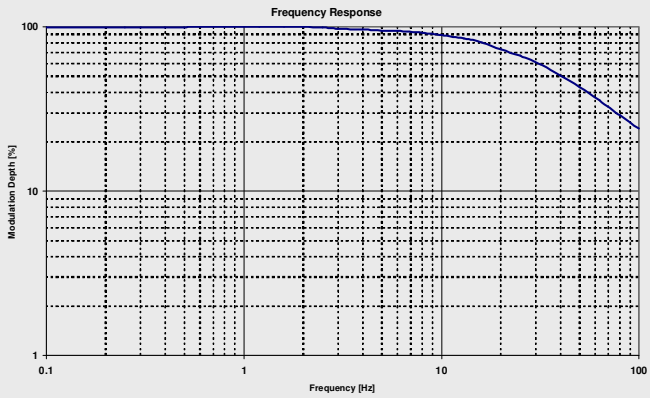
Bottom View

- Pin 1 Power
- Pin 2 Case
- Pin 3 Power

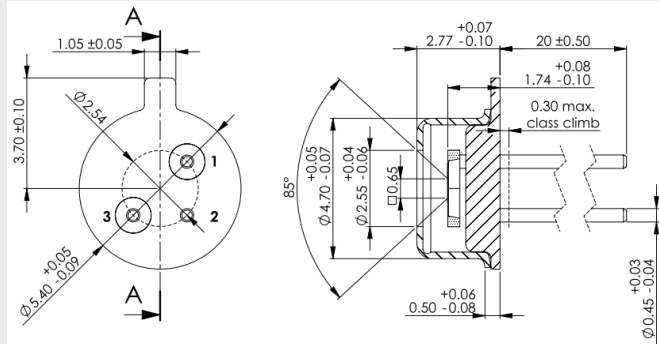


Absolute Max. Ratings		
Power	0.3	W
Housing temperature	200	°C
Active Area Temperature	800	°C

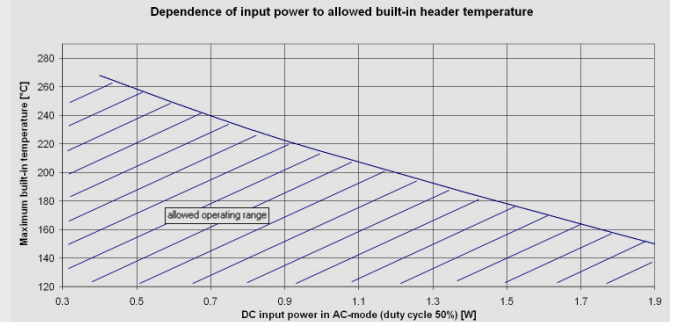
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Housing



Operation range



Optional parts

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

Evaluation Kit - For independent evaluation of emitters and detectors