



Infrared Radiation Source JSIR350-4-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 ... 20	μm
Active Area	2.2 x 2.2	mm ²
Hot Resistant	40±20	Ω
Temperature Coefficient	typ. 650	ppm/K
Time Constant	typ. 15	ms
Nominal Power Consumption	0.65	W
Operation Voltage ²	typ. 5.7	V
Operation Current ²	typ. 141	mA
Active Area Temperature ^{3,5}	640	°C
Window	-	
Mass	~1	g
Housing	T039 (modified)	
Lifetime ⁴	> 5,000 h at 740°C > 100,000 h at 640°C	

¹ without window

² with 40Ω

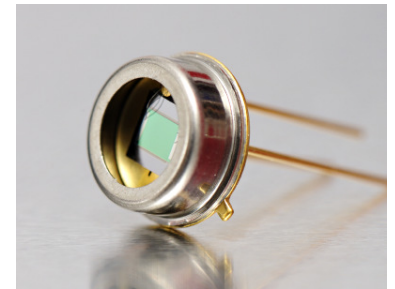
³ at nominal power (0.65W)

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

⁵ at T_{amb} = 25°C



MICRO-HYBRID



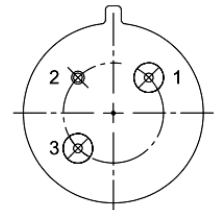
Pin Assignment

Bottom View

Pin 1 Power

Pin 2 Case

Pin 3 Power



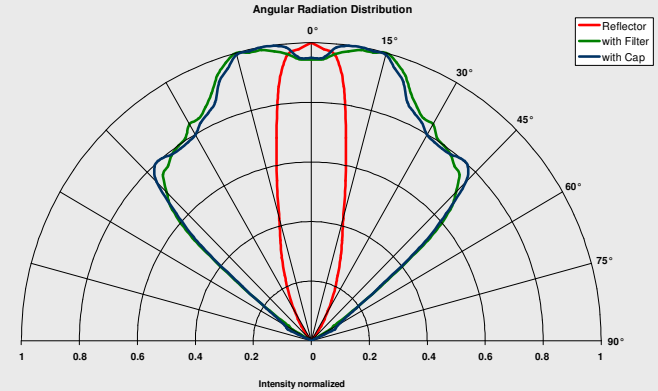
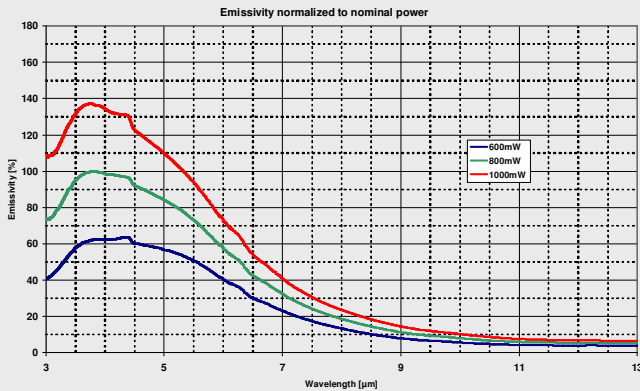
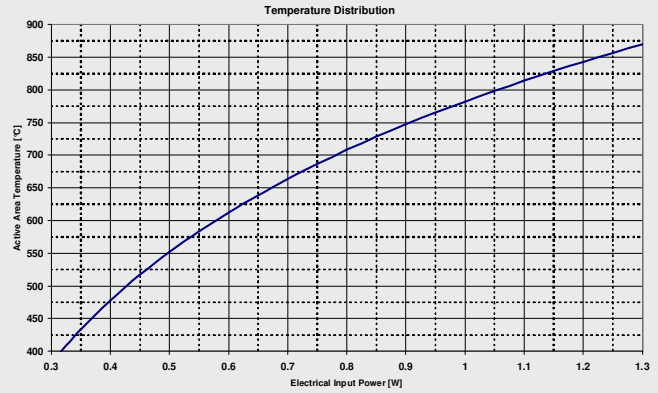
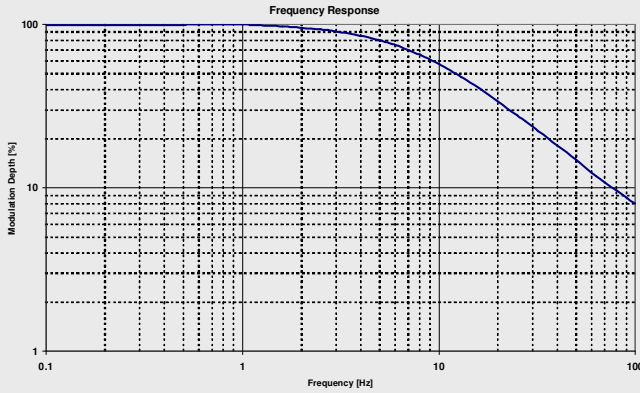
Absolute Max. Ratings

Power 1.2 W

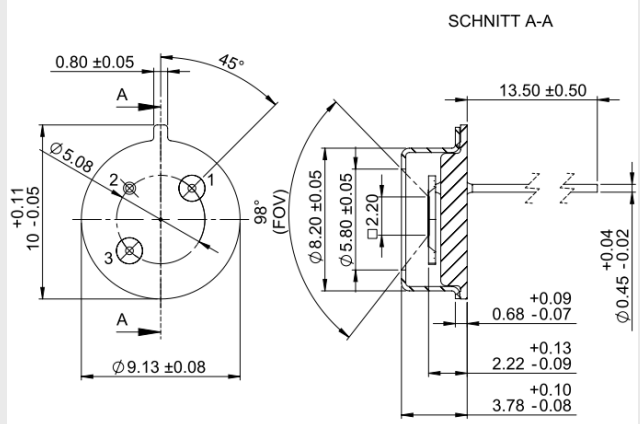
Housing temperature 200 °C

Active Area Temperature 850 °C

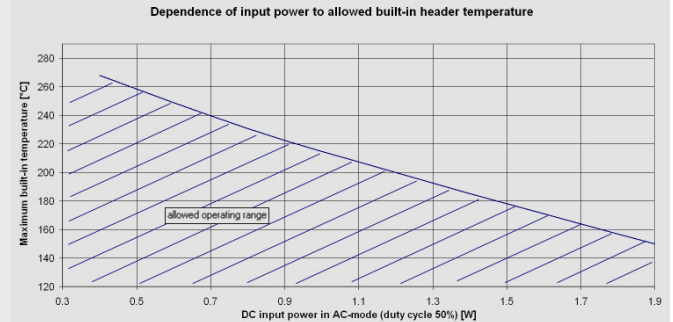
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Housing



Operation range



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