



## Infrared Radiation Source JSIR350-4-AL-R-D6.0-0-0

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

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

<sup>1</sup> without window

<sup>2</sup> with 40Ω

<sup>3</sup> at nominal power (0.65W)

<sup>4</sup> at 10 Hz, 50% duty cycle, preliminary results

<sup>5</sup> at T<sub>amb</sub> = 25°C

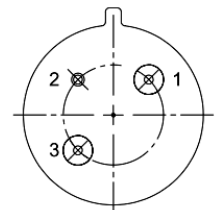
The current data are based on simulations and tests. They are subject to change during the next evaluation steps.



### Pin Assignment

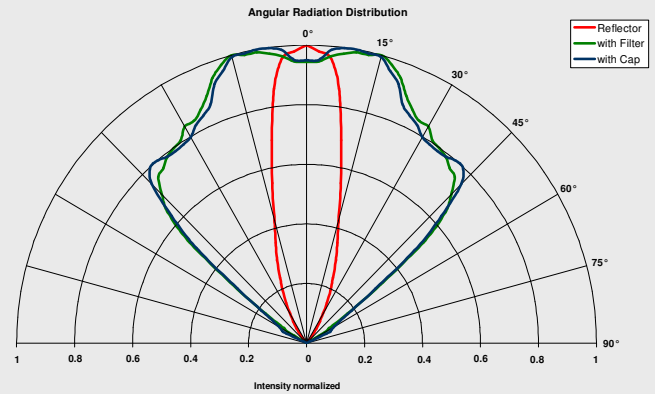
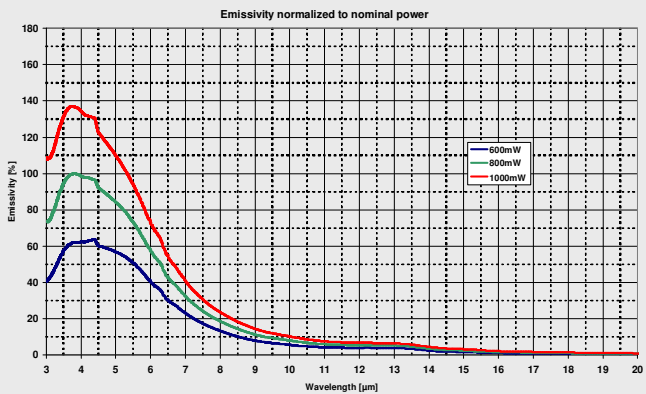
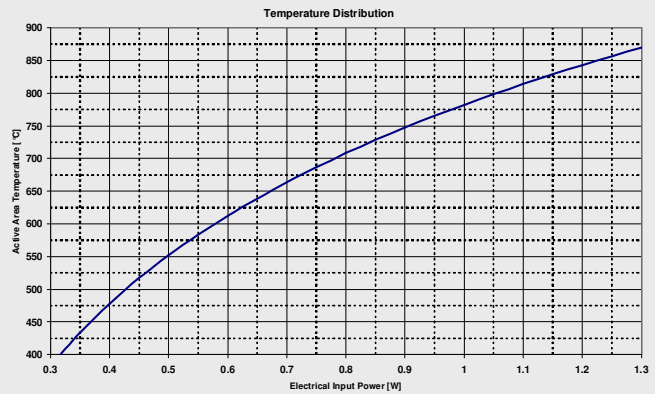
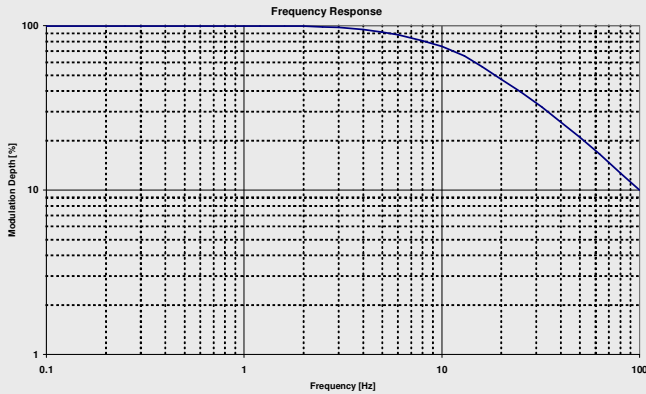
Bottom View

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

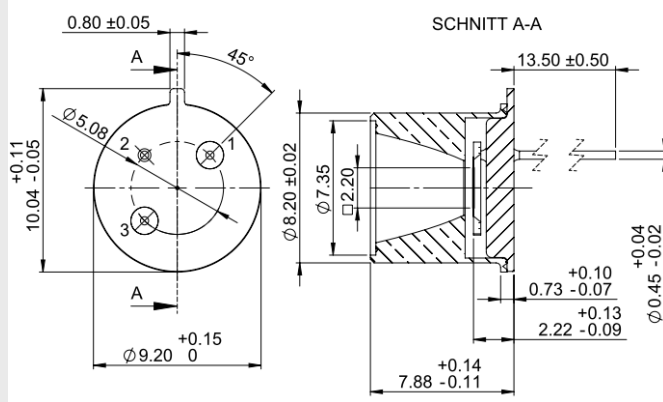


Absolute Max. Ratings		
Power	1.2	W
Housing temperature	200	°C
Active Area Temperature	850	°C

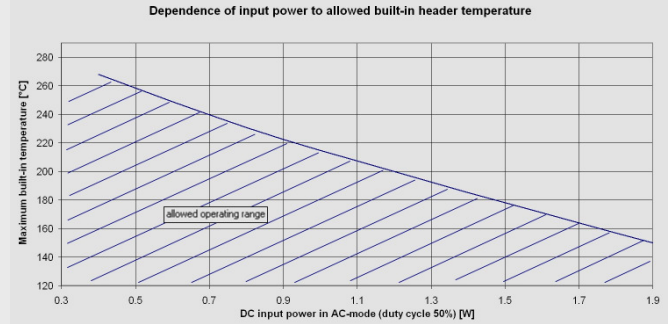
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## Housing



## Operation range



## Optional parts

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

Evaluation Kit - For independent evaluation of emitters and detectors