

# 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 <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. 4.9	V
Operation Current <sup>2</sup>	typ. 132	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

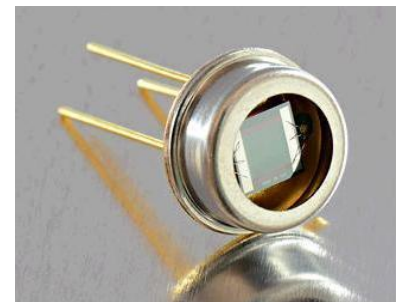
<sup>2</sup> with 40Ω

<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.



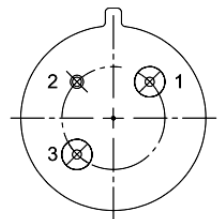
## Pin Assignment

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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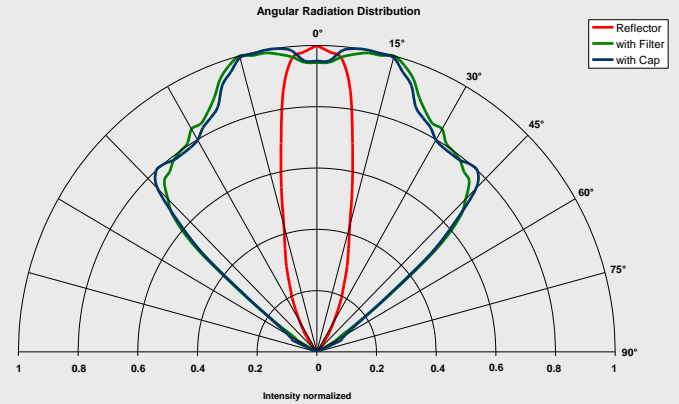
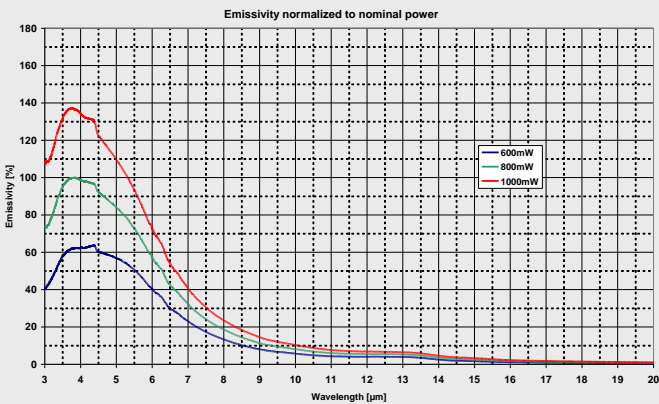
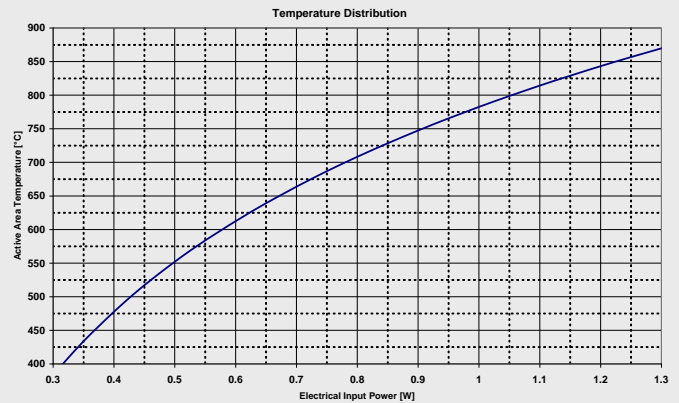
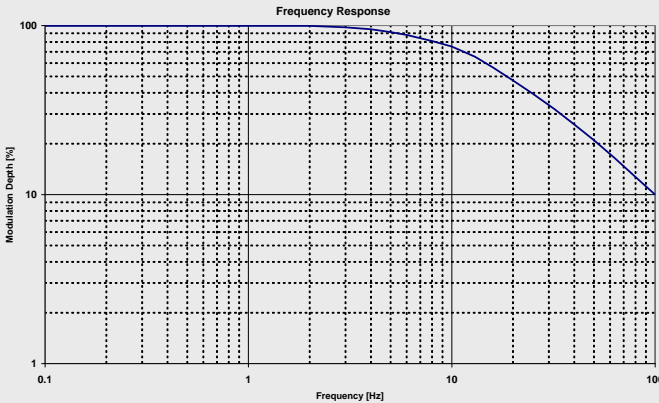
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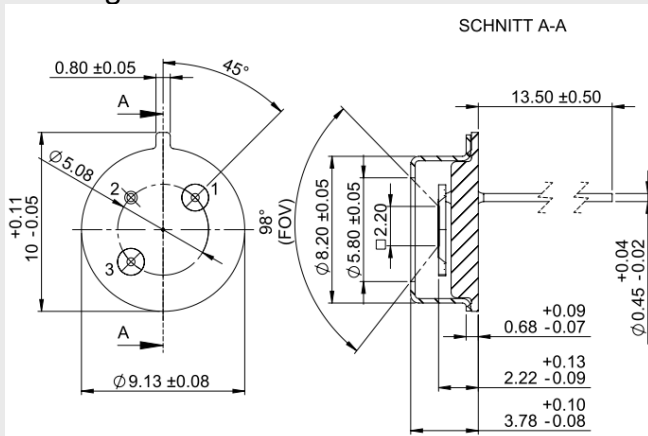
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## Housing

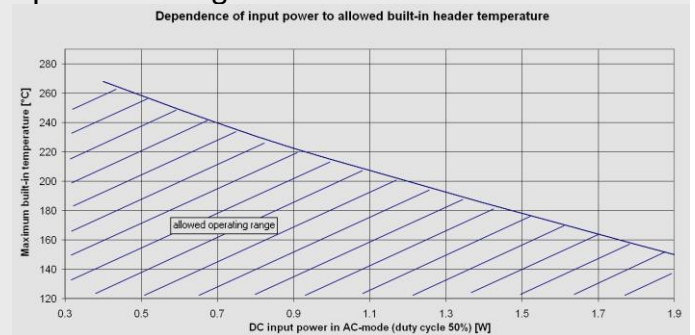


## Optional parts

Reflector - For bunching of radiation

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

## Operation range



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