

# Infrared Radiation Source JSIR350-5-BL-R-D3.6-0-0

Very 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 ... 15	μm
Active Area	0.65 x 0.65	mm <sup>2</sup>
Hot Resistant	40±20	Ω
Temperature Coefficient	typ. 650	ppm/K
Time Constant	typ. 7	ms
Nominal Power Consumption	0.175	W
Operation Voltage <sup>2</sup>	typ. 2.8	V
Operation Current <sup>2</sup>	typ. 63	mA
Active Area Temperature <sup>3,5</sup>	640	°C
Window	-	
Mass	~1	g
Housing	TO46 (modified)	
Lifetime <sup>4</sup>	> 5,000 h at 740 °C > 100,000 h at 640 °C	

<sup>1</sup> without window

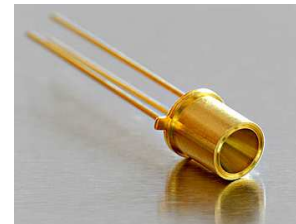
<sup>2</sup> with 40Ω

<sup>3</sup> at nominal power (0.2W)

<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.



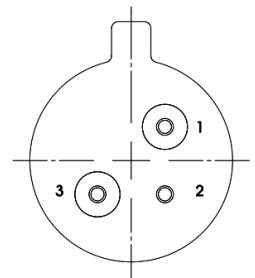
## Pin Assignmen

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 850 °C

*Micro-Hybrid Electronic GmbH*

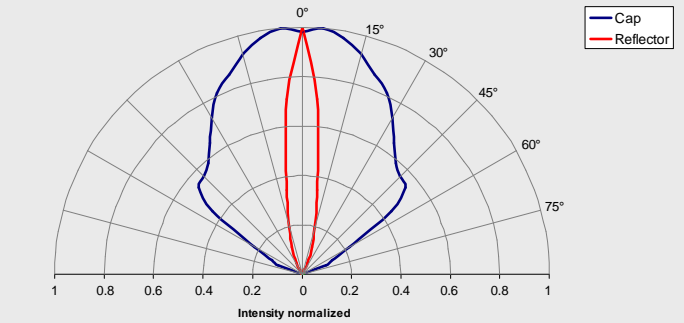
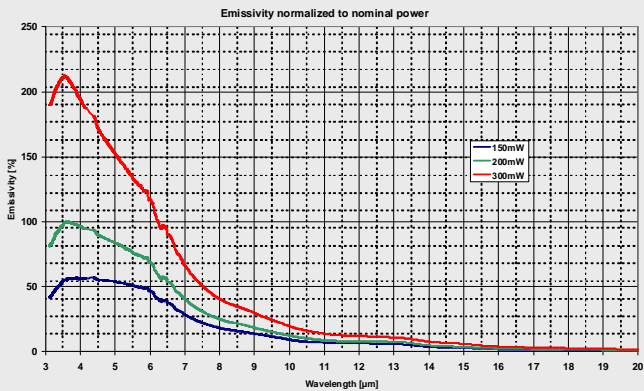
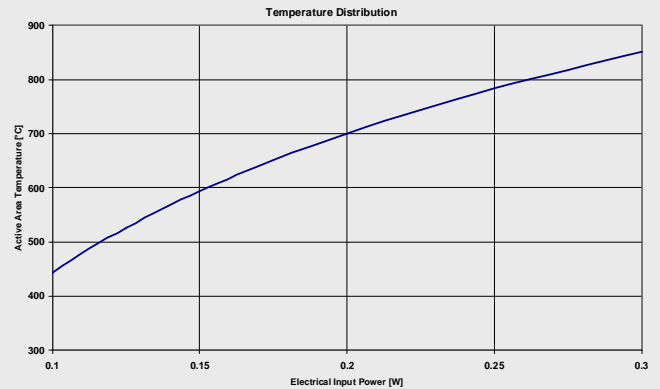
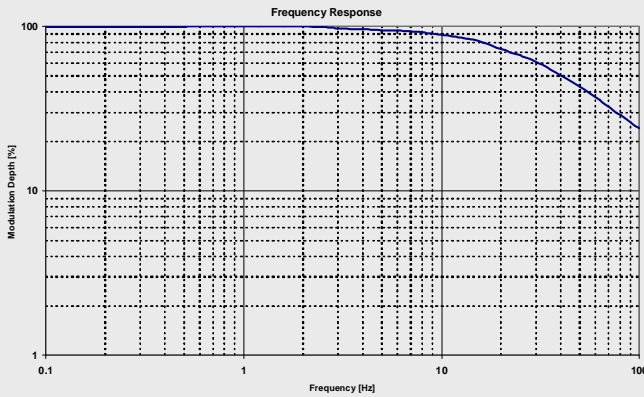
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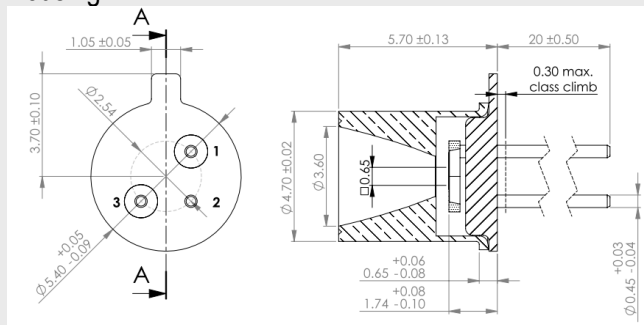
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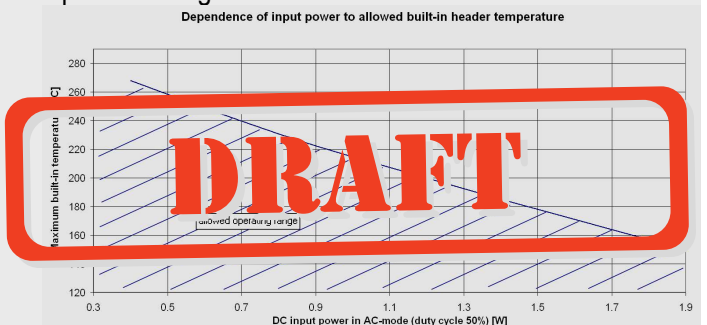
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## Housing



## Operation range



## Optional parts

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

Evaluation Kit – For independent evaluation of emitters and detectors

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