



Infrared Radiation Source JSIR350-4-AL-R-D6.0-X-X-I

Fast radiation source with a hermetic sealed reflector 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. 17	ms
Nominal Power Consumption	0.43	W
Operation Voltage ²	typ. 4.1	V
Operation Current ²	typ. 104	mA
Active Area Temperature ^{3,5}	640	°C
Window	Sapphire or Si AR coated 2-12 μm	
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 (0.43W)

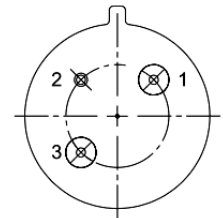
⁴ at 10 Hz, 50% duty cycle, preliminary results

⁵ at T_{amb} = 25°C

Pin Assignment

Bottom View

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



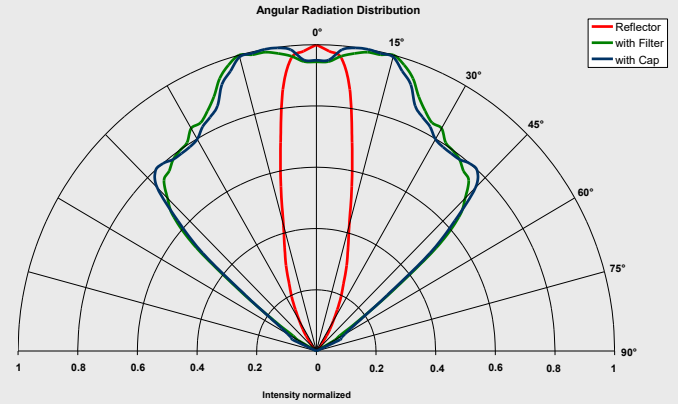
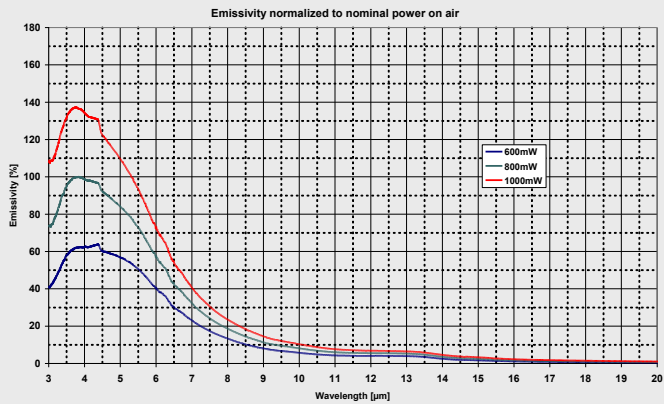
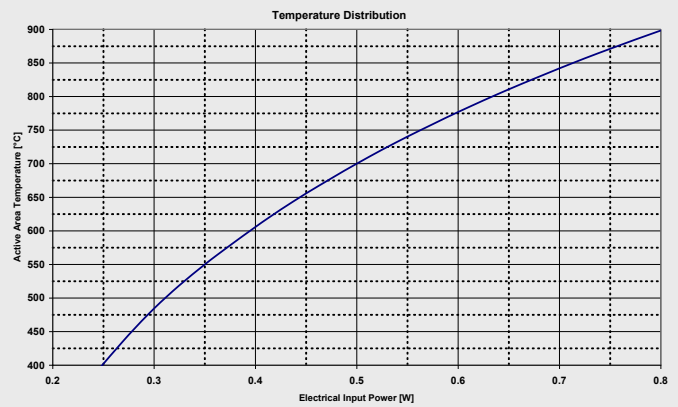
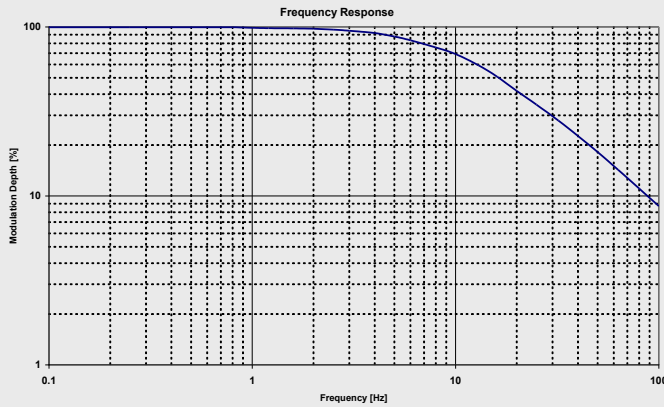
Absolute Max. Ratings

Power	0.8	W
Housing temperature	200	°C
Active Area Temperature	850	°C

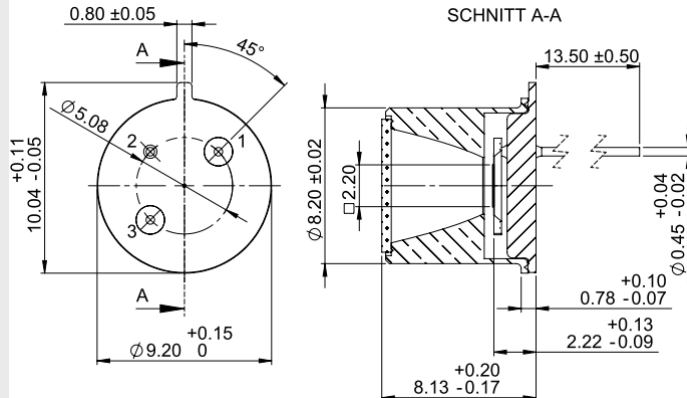
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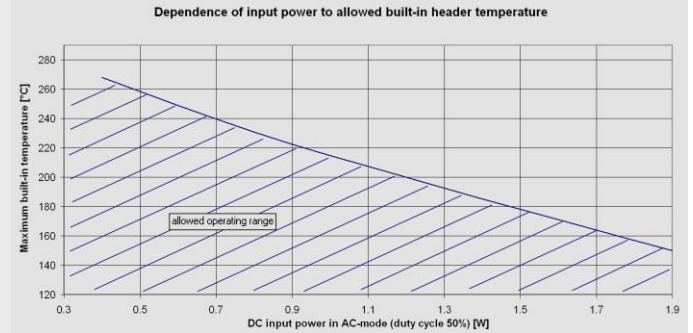
MICRO-HYBRID



Housing



Operation range



Optional parts

Evaluation Kit – For independent evaluation of emitters and detectors