



Infrared Spiral Wound Radiation Source JSIR450-R

Powerful radiation source with circular homogeneous temperature distribution for use with thermopiles and pyro-electric detectors in NDIR gas analysis and other applications.

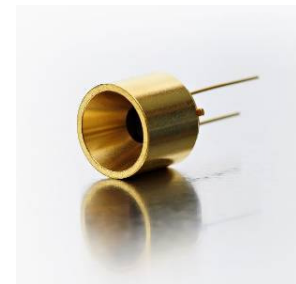
Spectral Output Range ¹	typ. 0.8 ... 15	μm
Active Area	2.2 dia	mm ²
Hot Resistant	12±1	Ω
Time Constant	typ. 530	ms
Nominal Power Consumption	0.7	W
Operation Voltage ²	typ. 2.9	V
Operation Current ²	typ. 242	mA
Active Area Temperature ^{3,4}	650	°C
Filling Gas	-	
Filter	-	
Mass	~2	g
Housing	T039 (modified)	
Lifetime	> 50,000 h at 650°C	

¹ without window

² with 12Ω

³ at nominal power (0.7W)

⁴ at T_{amb} = 25°C

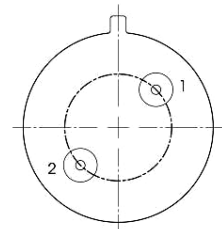


Pin Assignment

Bottom View

Pin 1 Power

Pin 2 Power



Absolute Max. Ratings

Power 1.7 W

Housing temperature 200 °C

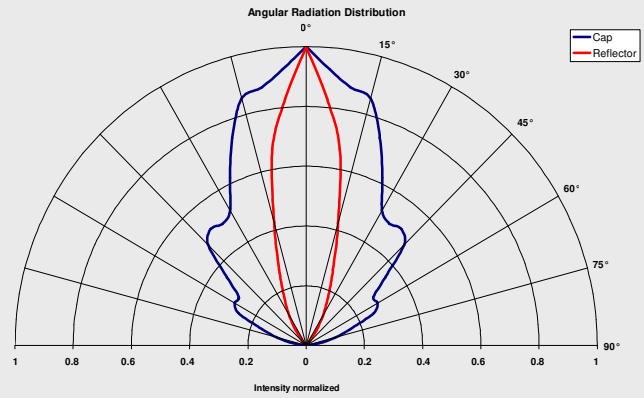
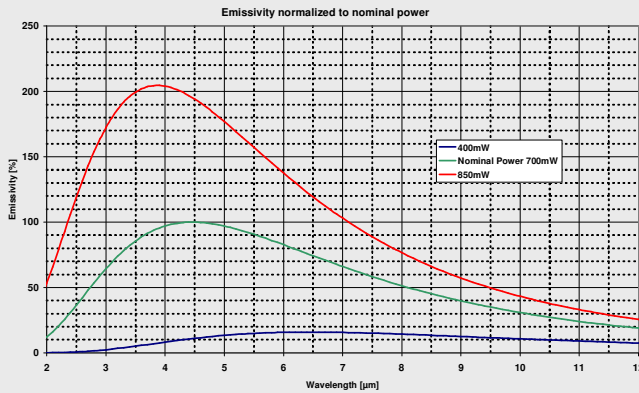
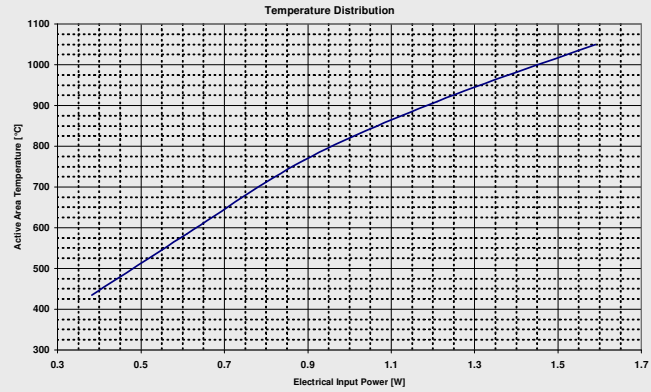
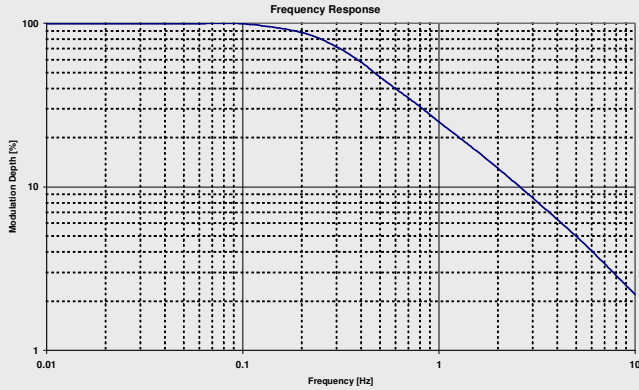
Ordering Information

JSIR450-R

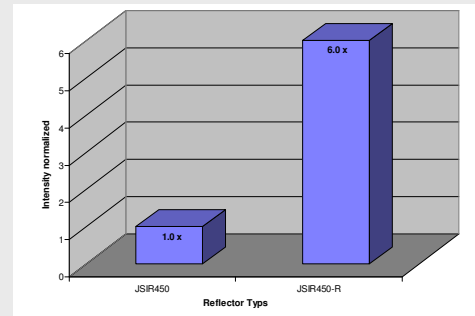
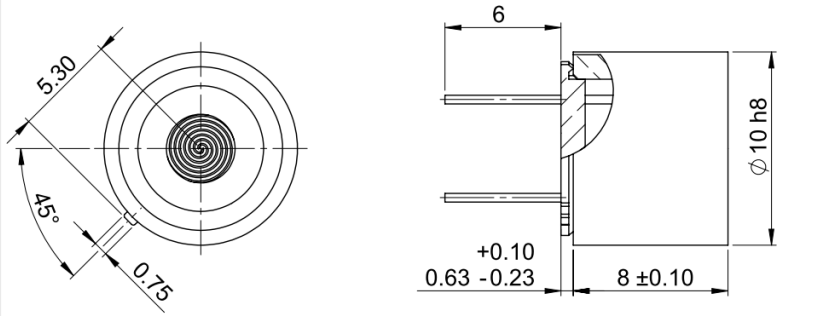
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Housing



Optional parts

IR-Detector PS2x4V1- Pyroelectric dual-channel voltage mode detector CO₂/Ref
Art.-Nr. 4594.56-H.02

Evaluation Kit - For independent evaluation of emitters and detectors
Art.-Nr. 7206.01-A.00