

Infrared Spiral Wound Radiation Source JSIR450-R

Powerful radiation source with circular homogeneous temperature distribution for use with thermopiles and pyroelectric 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

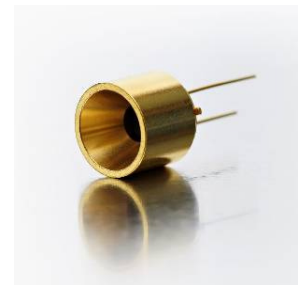
² with 12Ω

³ at nominal power (0.7W)

⁴ at T_{amb} = 25 °C

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

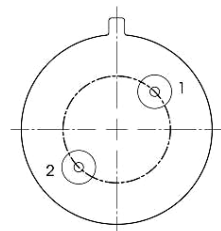
September 27th 2012 - subject to change without notice



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

6350.11-3.01

Micro-Hybrid Electronic GmbH

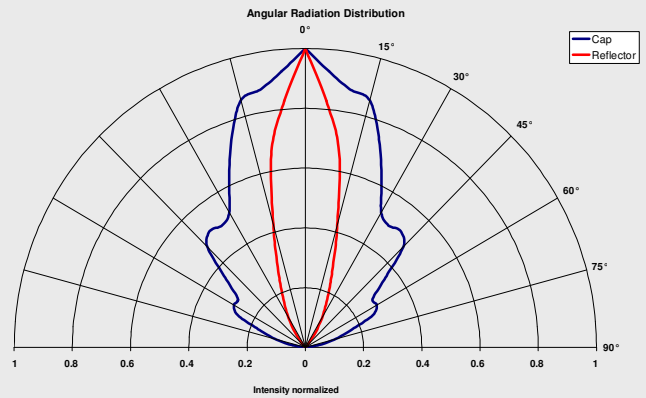
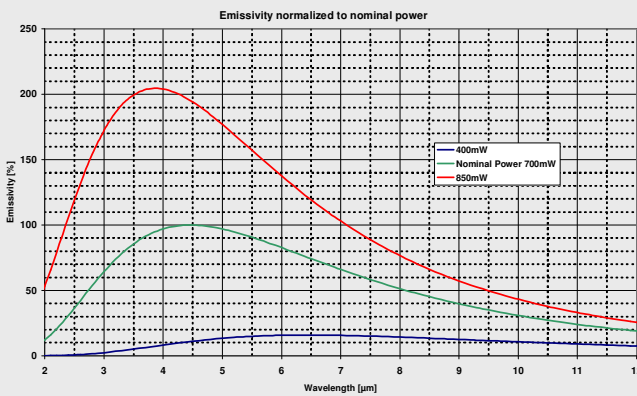
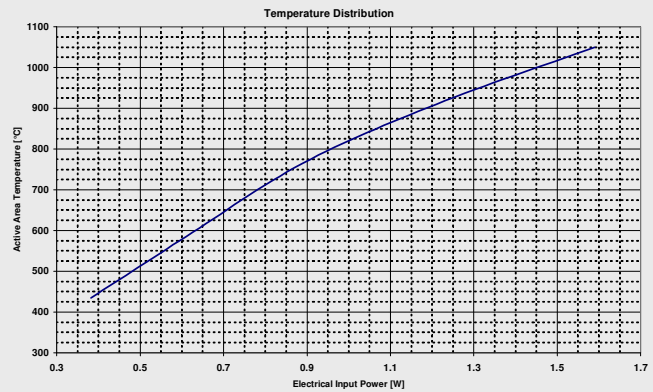
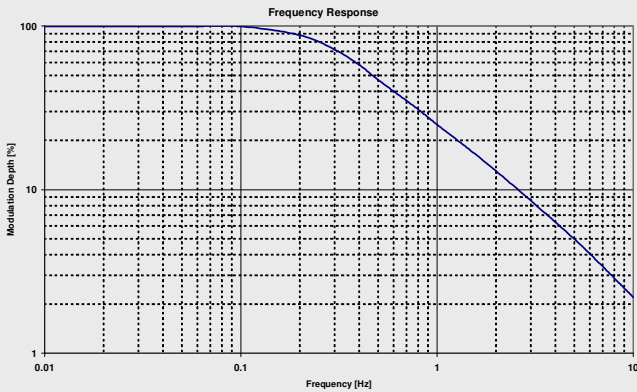
Heinrich-Hertz-Straße 8
D-07629 Hermsdorf

Tel.: +49 366 01 592 100
Fax: +49 366 01 592 110

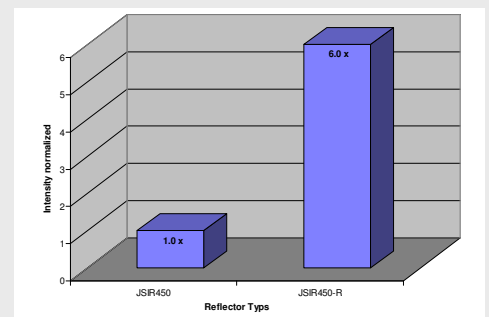
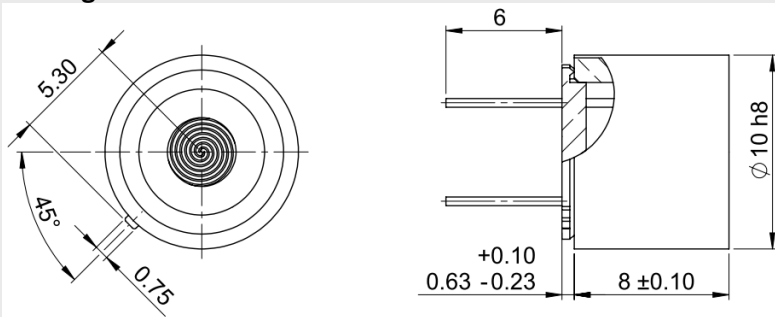
Email: Infrared@micro-hybrid.de
Web: www.micro-hybrid.de

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Infrared Spiral Wound Radiation Source JSIR450-R



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

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**Heinrich-Hertz-Straße 8
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Fax: +49 366 01 592 110**

**Email: Infrared@micro-hybrid.de
Web: www.micro-hybrid.de**

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