



## Infrared Spiral Wound Radiation Source JSIR450

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

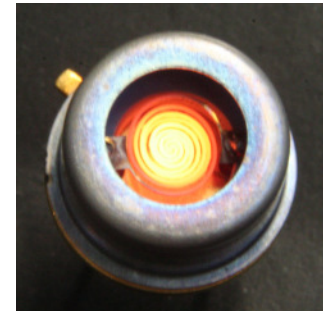
|  |                     |                 |
|--|---------------------|-----------------|
| Spectral Output Range <sup>1</sup>     | typ. 0.8 ... 15     | μm              |
| Active Area                            | 2.2 dia             | mm <sup>2</sup> |
| Hot Resistant                          | 12±1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

<sup>1</sup> without window

<sup>2</sup> with 12Ω

<sup>3</sup> at nominal power (0.7W)

<sup>4</sup> at T<sub>amb</sub> = 25°C

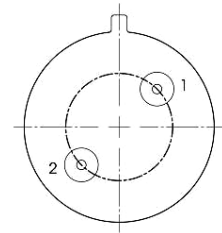


### Pin Assignment

Bottom View

Pin 1 Power

Pin 2 Power



### Absolute Max. Ratings

Power 1.7 W

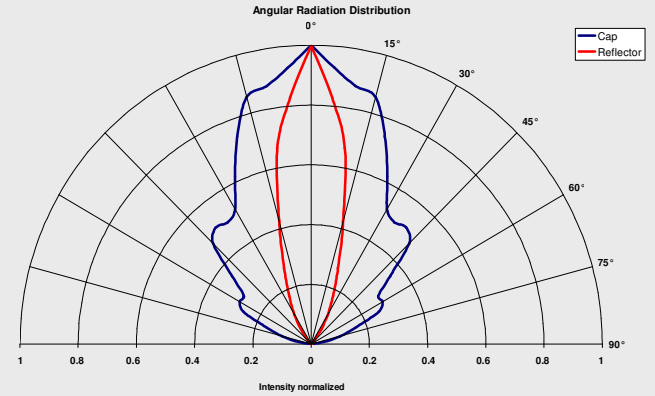
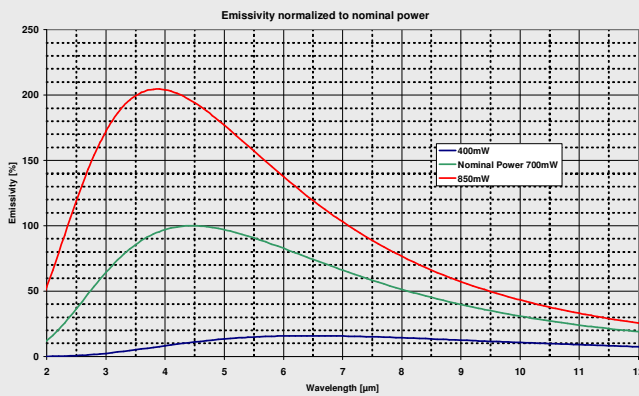
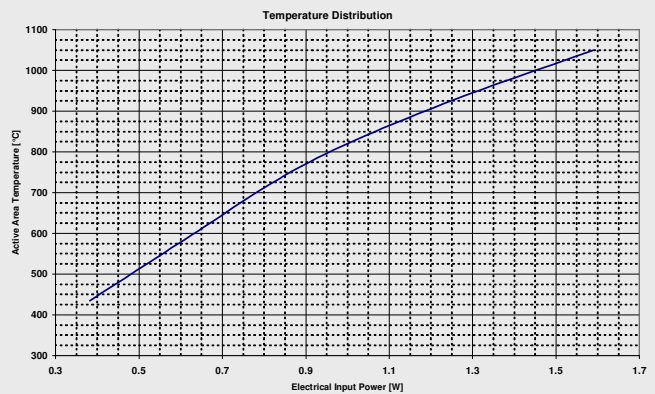
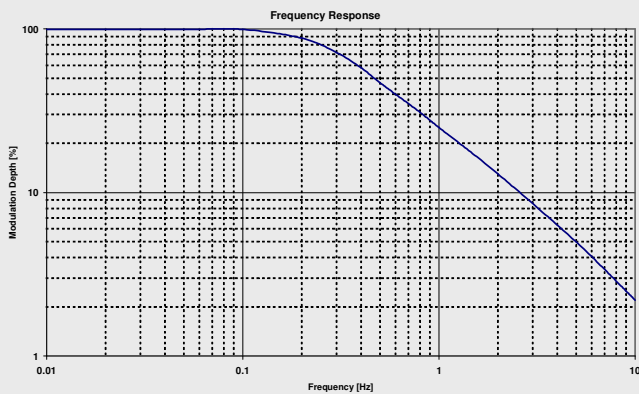
Housing temperature 200 °C

### Ordering Information

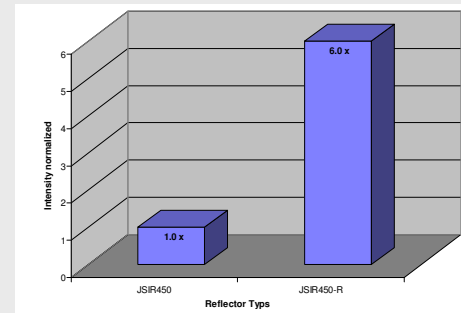
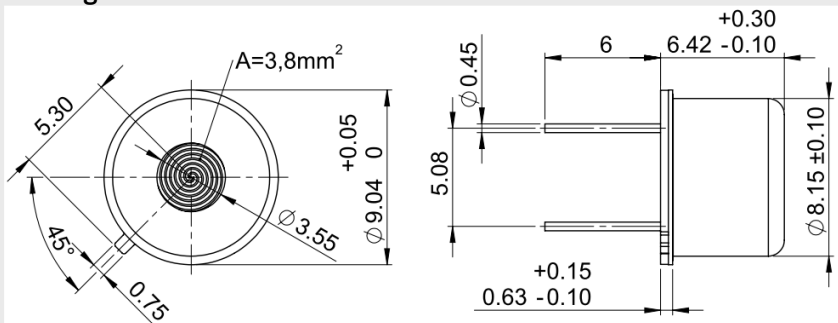
JSIR450

6350.01-3.01

# Infrared Spiral Wound Radiation Source JSIR450



## Housing



## Optional parts

IR-Detector PS2x4V1- Pyroelectric dual-channel voltage mode detector CO<sub>2</sub>/Ref  
Art.-Nr. 4594.56-H.02

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