INFRASOLID®

HISpower series

TO-8 Thermal Infrared Emitters

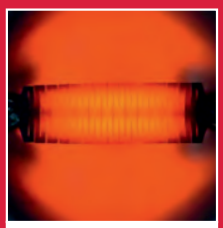
HIS*power* series

Thermal Infrared Emitters

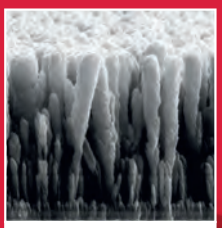
Infrasolid's infrared radiation sources are pulsable thermal emitters with a near black-body emittance. Based on a patented nanotechnology and a patented emitter set-up made of a high-melting metal, the free-standing monolithic radiating element and the nanostructured emitter surface offer numerous advantages in many applications.

HIS*power* series emitters have an integrated reflector that directs the radiation emitted from the rear to the front through the housing window in order to achieve maximum efficiency. Infrasolid's advanced packaging technology allows soldered sapphire, CaF_2 and BaF_2 windows for use in a wide temperature range of -25 °C up to +85 °C.

Key features



High radiant power



High efficiency

Hermetic housing

- **Pulsable thermal black-body infrared source mounted in an industry standard TO-8 package.**
- **Patented nanostructured radiating element achieves up to 500% more detection signal!**
- **Lower radiating element temperature of 630 °C increases lifetime!**
- **Soldered, high-quality filter windows guarantee considerably less drift. Leakage tested!**
- **Wide wavelength range enables a broad range of applications.**

innovative infrared sources for gas detection & spectroscopy

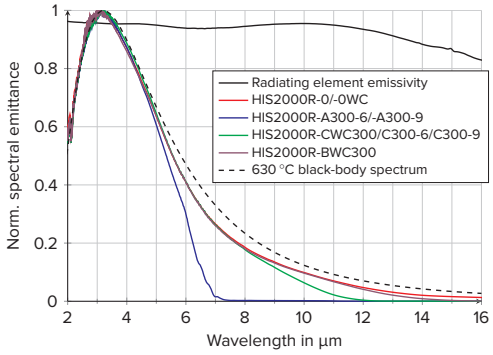
Main specifications

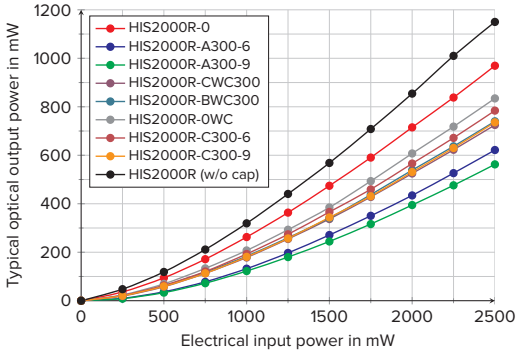
Parameter	HIS*power* series
Package	TO-8
Radiating element area	40 mm^2
Radiating element emissivity	> 0.9
Radiating element temperature	630 °C at 2.5 W
Optical output power**	up to 1 W
Max. electrical power (DC)	2.5 W
Max. electrical voltage	3.8 V
Max. electrical current	660 mA
Electrical resistance	5...6 Ω
Modulation frequency*	4 Hz
Filter/Window	Sapphire, CaF_2, BaF_2
Wavelength range**	2 to 20 µm

* 50 % modulation depth, square wave signal, 50 % duty cycle
** depending on filter transmissivity

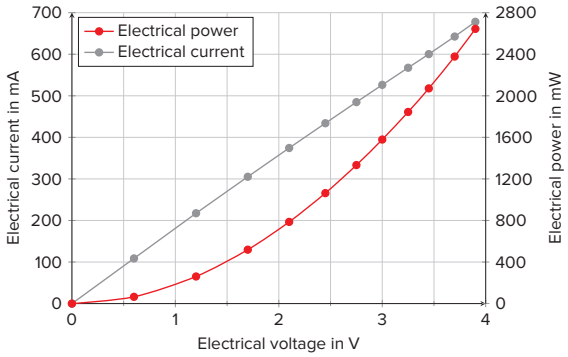
For detailed technical specifications refer to the individual datasheet.

Optical specifications

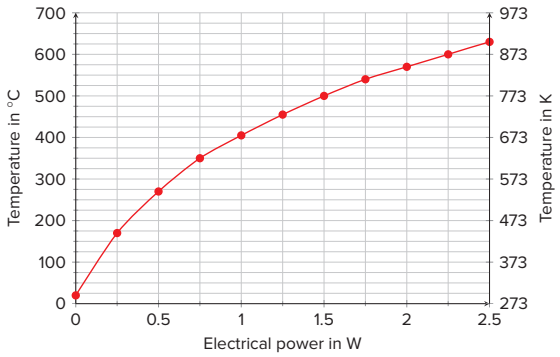




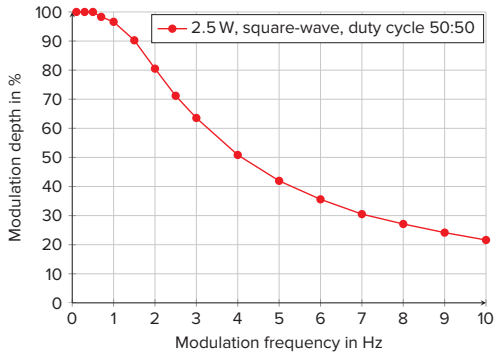
Electrical specifications



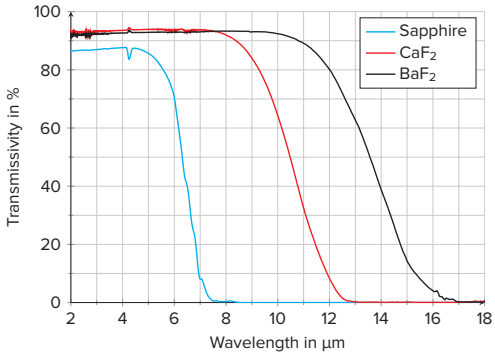
Radiating element temperature

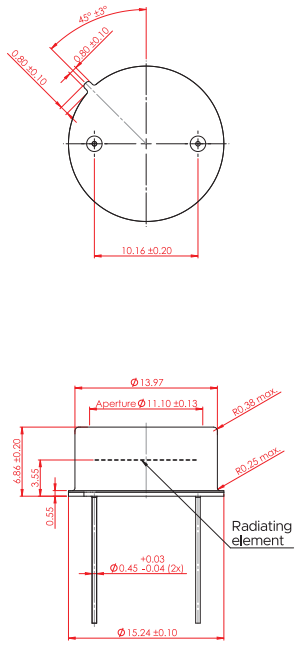
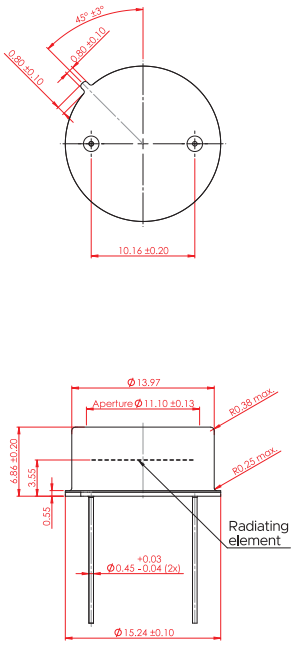
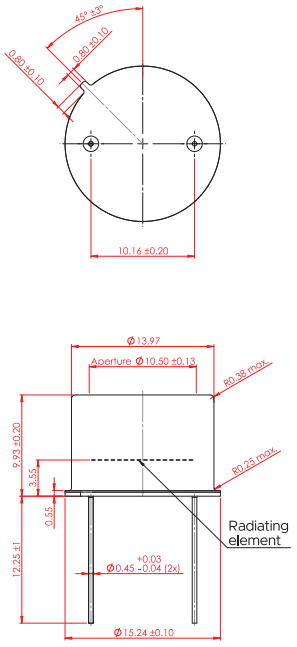


Modulation depth



Window material transmissivity



HIS2000R-0	**HIS2000R**-A300-6 / -C300-6	**HIS2000R**-A300-9 / -C300-9
HIS2000R-0 Without window (open version)	**HIS2000R**-A300-6 Soldered sapphire window **HIS2000R**-C300-6 Glued CaF_2 window Other windows on request	**HIS2000R**-A300-9 Soldered sapphire window **HIS2000R**-C300-9 Glued CaF_2 window Other windows on request
With reflector, no collimator	With reflector, no collimator	With reflector, no collimator
No gas filling	N_2 gas filling (other gases possible)	N_2 gas filling (other gases possible)
		

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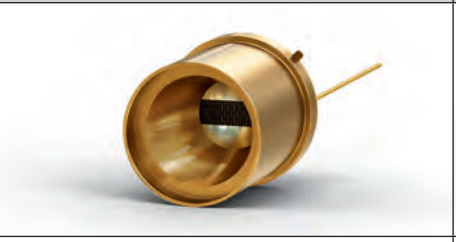
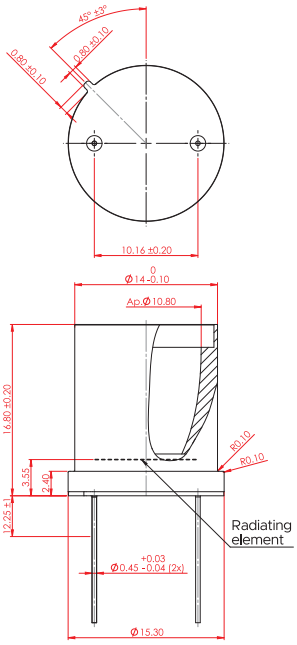
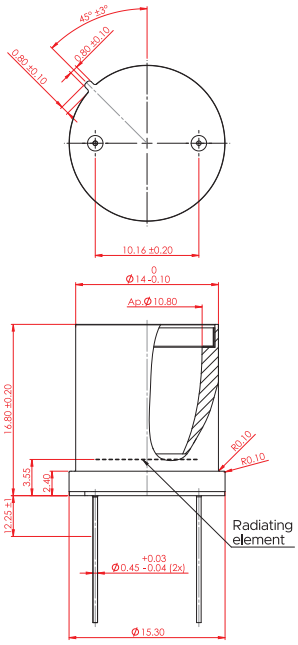
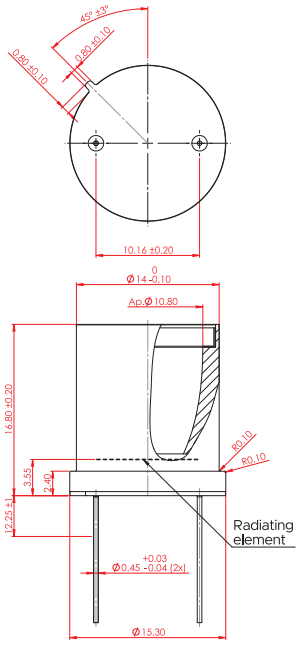
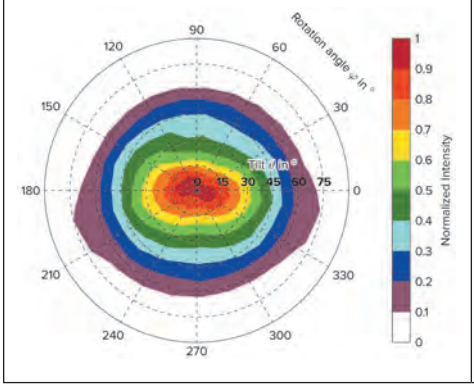
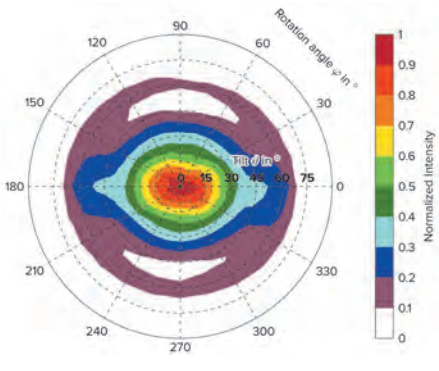
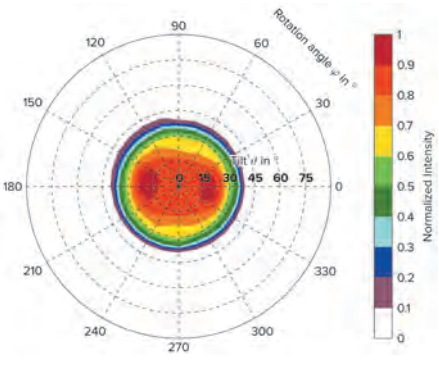
		
HIS2000R-0WC Without window (open version)	**HIS2000R**-CWC300 Soldered CaF_2 window	**HIS2000R**-BWC300 Soldered BaF_2 window
Winston cone collimator	Winston cone collimator	Winston cone collimator
No gas filling	N_2 gas filling (other gases possible)	N_2 gas filling (other gases possible)
		

Angular radiation distribution

HIS2000R-A300-6 / -C300-6	HIS2000R-A300-9 / -C300-9	HIS2000R-BWC300 / -CWC300 / -0WC
		

INFRASOLID®

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INFRASOLID®

Data Sheet HIS*power*

HIS2000R-0

TO-8 Thermal Infrared Emitter

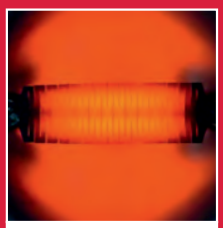
HIS2000R-0

Thermal infrared emitter with gold plated reflector

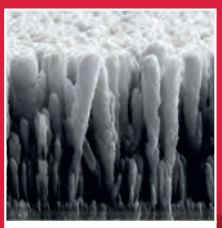
Our HIS2000R-0 is a NiCr filament based thermal emitter in a TO8 package, with a gold plated reflector that directs the radiation emitted from the rear of the filament to the front. This almost doubles our optical output power. The open emitter offers high performance for a wide spectral measuring range.

HIS*power* series emitters have an integrated gold plated reflector that directs the radiation emitted from the rear to the front in order to achieve maximum efficiency. All our emitters offer minimum drift at constant resistance (Ohm). Infrasolids IR emitters are characterized by a very low temperature coefficient of electrical resistance. Therefore the hot resistance and the cold resistance are almost identical which eases the electrical control of the IR sources.

Key features



High radiant power



High efficiency

Low cost

- **Pulsable thermal black-body infrared source mounted in an industry standard TO-8 package.**
- **Patented nanostructured radiating element achieves up to 500% more detection signal!**
- **Lower radiating element temperature of 630 °C increases lifetime!**
- **Wide wavelength range enables a broad range of applications.**

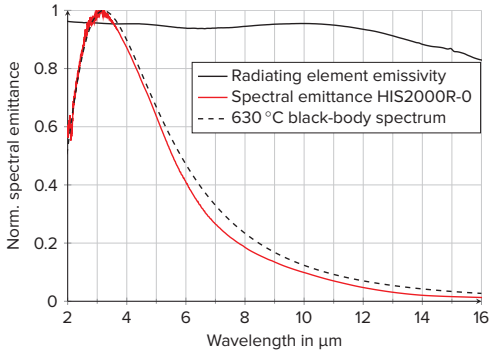
innovative infrared sources for gas detection & spectroscopy

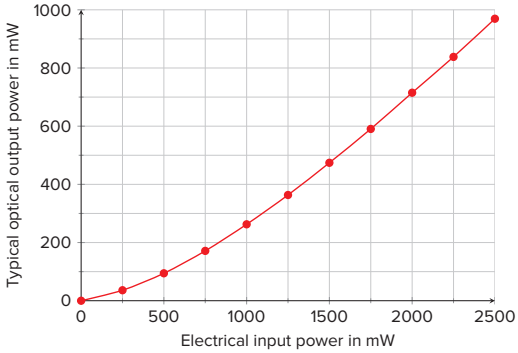
Main specifications

Parameter	HIS2000R-0
Package	TO-8
Radiating element area	40 mm²
Radiating element emissivity	> 0.9
Radiating element temperature	630 °C at 2.5 W
Optical output power	up to 1 W
Max. electrical power (DC)	2.5 W
Max. electrical voltage	3.8 V
Max. electrical current	660 mA
Electrical resistance	5...6 Ω
Modulation frequency*	4 Hz
Filter/Window	None
Wavelength range	2 to 20 µm

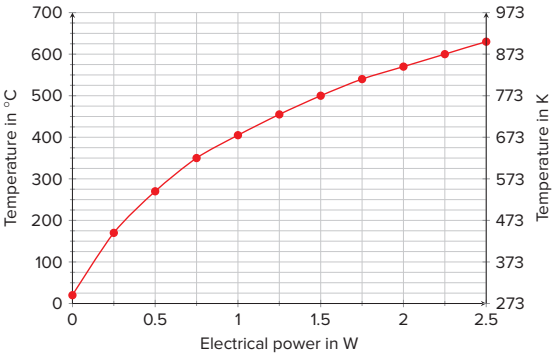
* 50 % modulation depth, square wave signal, 50 % duty cycle

Optical specifications

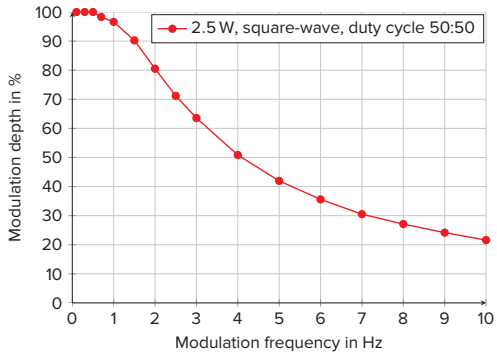




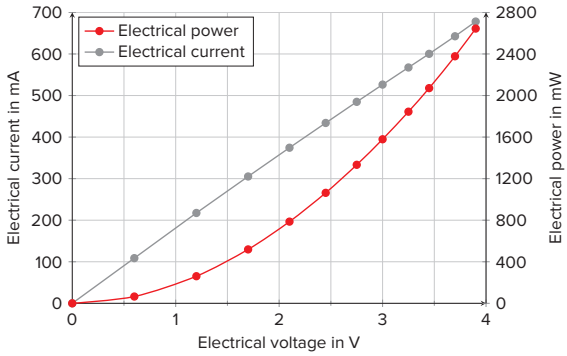
Radiating element temperature



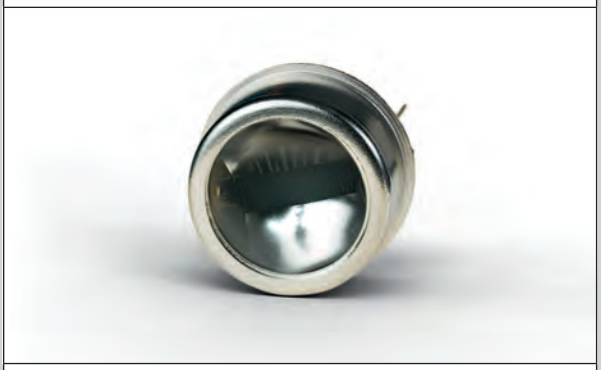
Modulation depth

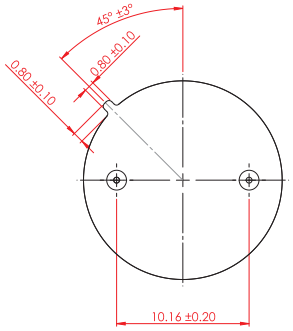


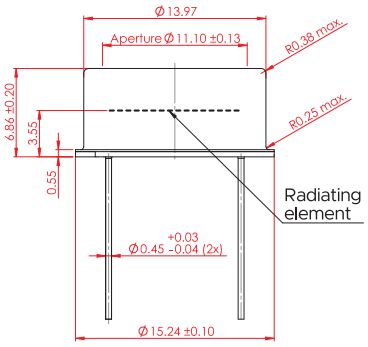
Electrical specifications



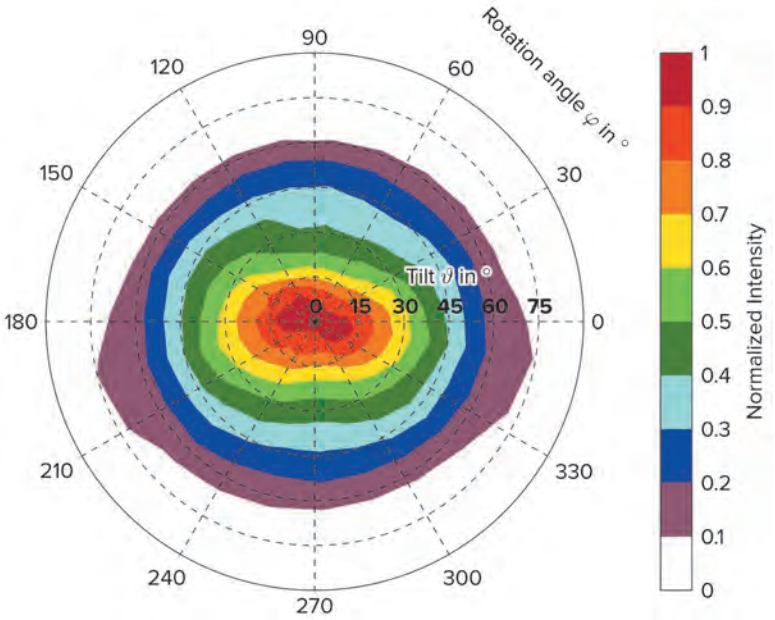
HIS2000R-0

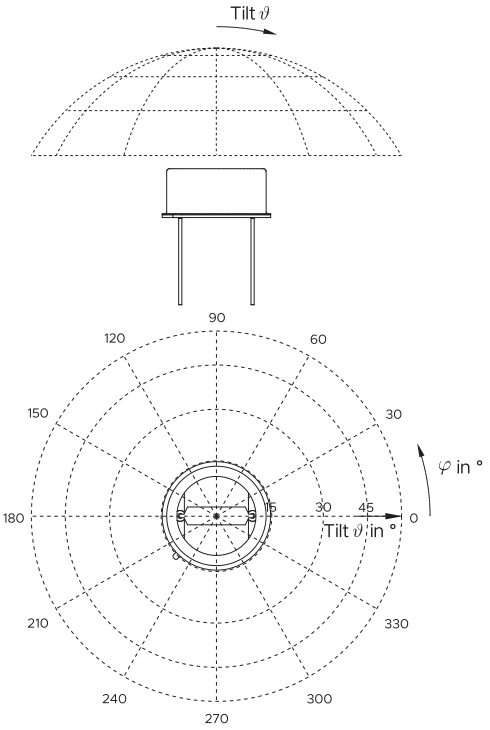


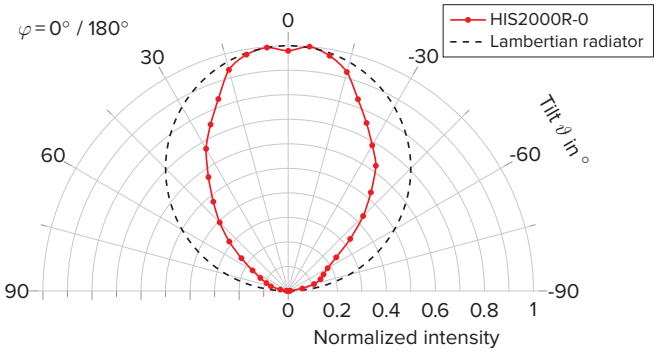


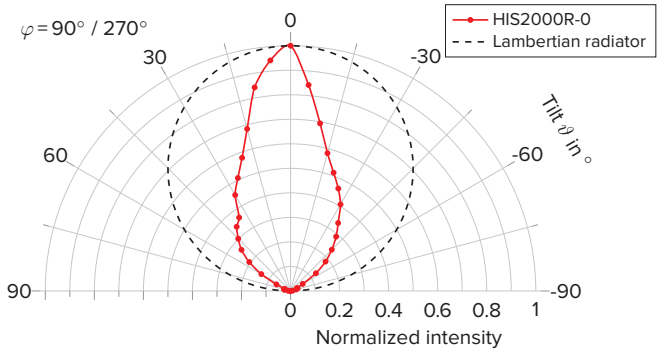


Angular radiation distribution









Operating mode recommendation:

All our IR sources can be driven in electrical voltage, current or power regulated mode. The application decides whether the operating mode is DC or AC (pulsed). Depending on the drive mode and the applied electrical power the electrical resistance of the IR emitter can change over time. For highest measurement accuracy a power regulated mode is always recommended for thermal IR emitters. However, it is the most complex operating mode and not suitable in all applications.

For applications that require a small and low-cost driving circuit with a maximum stability we have a technical note with an adjustable low dropout voltage (LDO) regulator.

For further information please refer to:
www.infrasolid.com/technicalnote

INFRASOLID®

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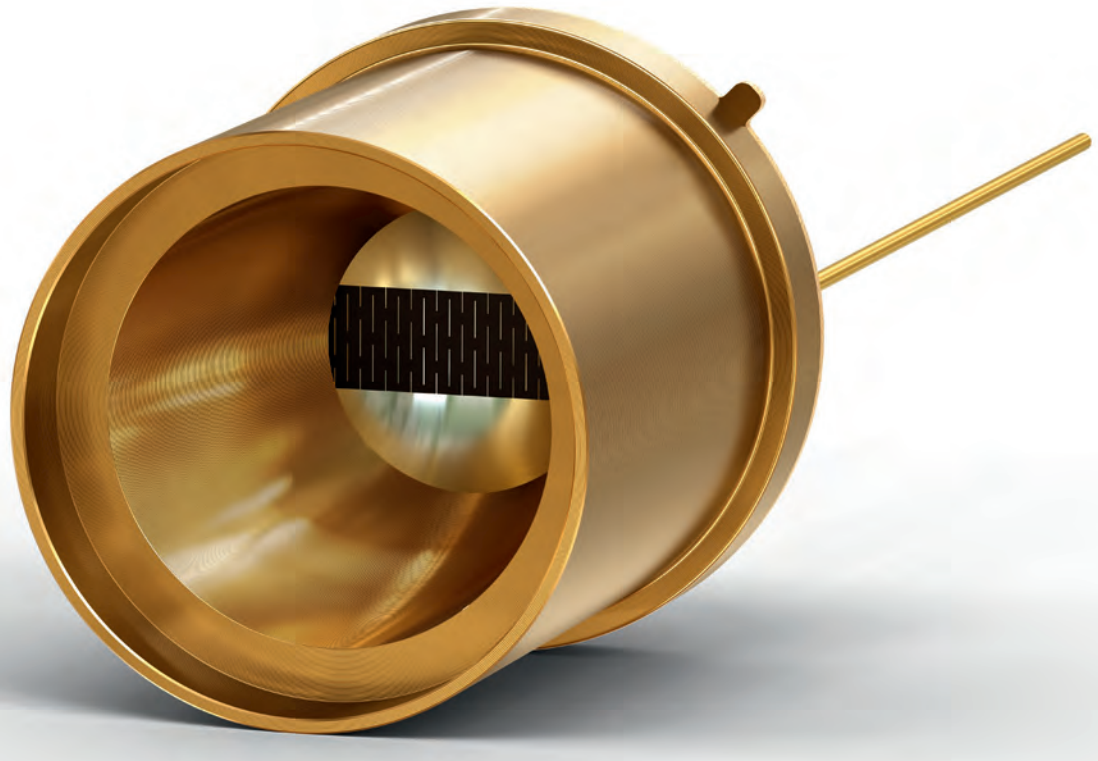


Data Sheet HIS*power*

HIS2000R-0WC

TO-8 Thermal Infrared Emitter

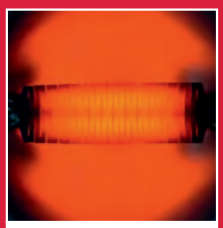
HIS2000R-0WC

Thermal infrared emitter with gold plated reflector and Winston cone collimator

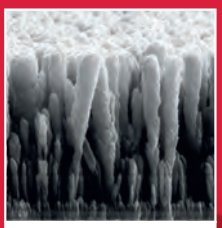
Our HIS2000R-0WC is a NiCr filament based thermal emitter in a TO8 package, with a gold plated reflector as well as a gold plated Winston cone collimator. While the reflector directs the radiation emitted from the rear of the filament to the front, the Winston cone collimator bundles and focuses the beam for maximum optical performance. The open emiter offers high power for a wide spectral measuring range.

HIS*power* series emitters have an integrated gold plated reflector that directs the radiation emitted from the rear to the front in order to achieve maximum efficiency. All our emitters offer minimum drift at constant resistance (Ohm). Infrasolids IR emitters are characterized by a very low temperature coefficient of electrical resistance. Therefore the hot resistance and the cold resistance are almost identical which eases the electrical control of the IR sources.

Key features



High radiant power



High efficiency

Low Cost

- **Pulsable thermal black-body infrared source mounted in an industry standard TO-8 package.**
- **Patented nanostructured radiating element achieves up to 500% more detection signal!**
- **Lower radiating element temperature of 630 °C increases lifetime!**
- **Wide wavelength range enables a broad range of applications.**

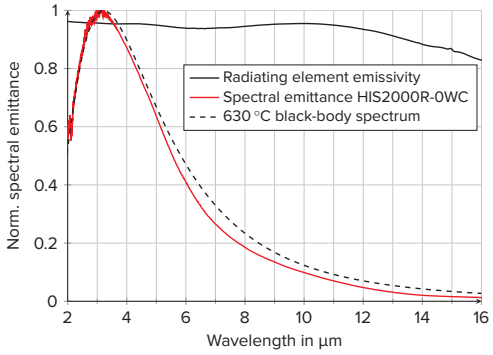
innovative infrared sources for gas detection & spectroscopy

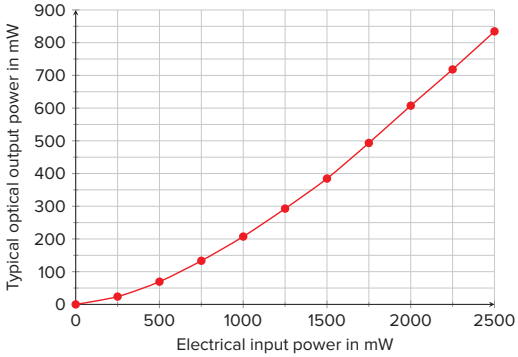
Main specifications

Parameter	HIS2000R-0WC
Package	TO-8
Radiating element area	40 mm²
Radiating element emissivity	> 0.9
Radiating element temperature	630 °C at 2.5 W
Optical output power	up to 830 mW
Max. electrical power (DC)	2.5 W
Max. electrical voltage	3.8 V
Max. electrical current	660 mA
Electrical resistance	5...6 Ω
Modulation frequency*	4 Hz
Filter/Window	None
Wavelength range	2 to 20 µm

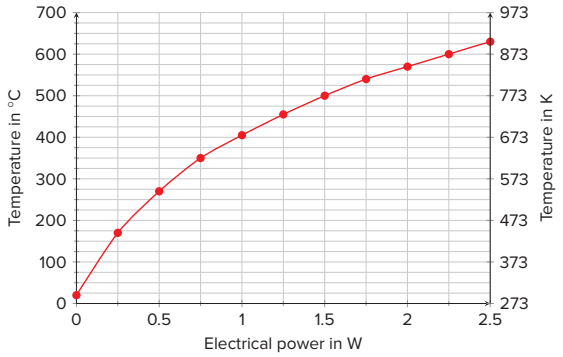
* 50 % modulation depth, square wave signal, 50 % duty cycle

Optical specifications

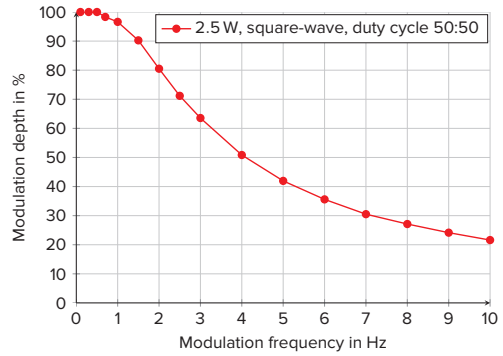




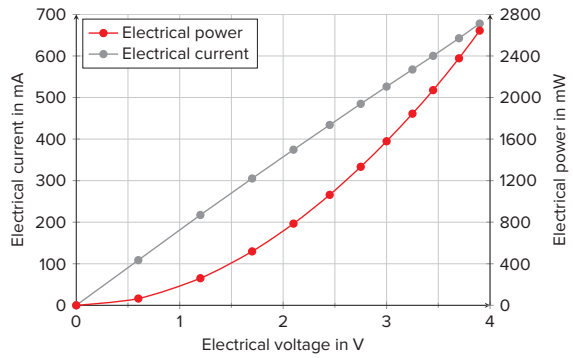
Radiating element temperature



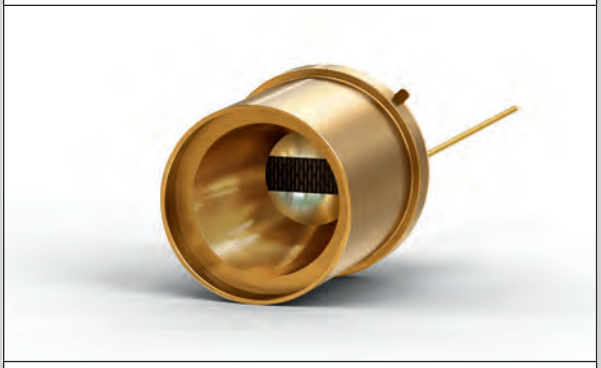
Modulation depth

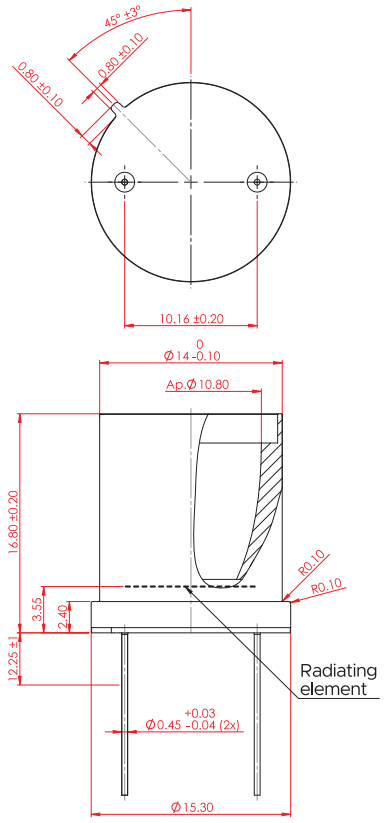


Electrical specifications

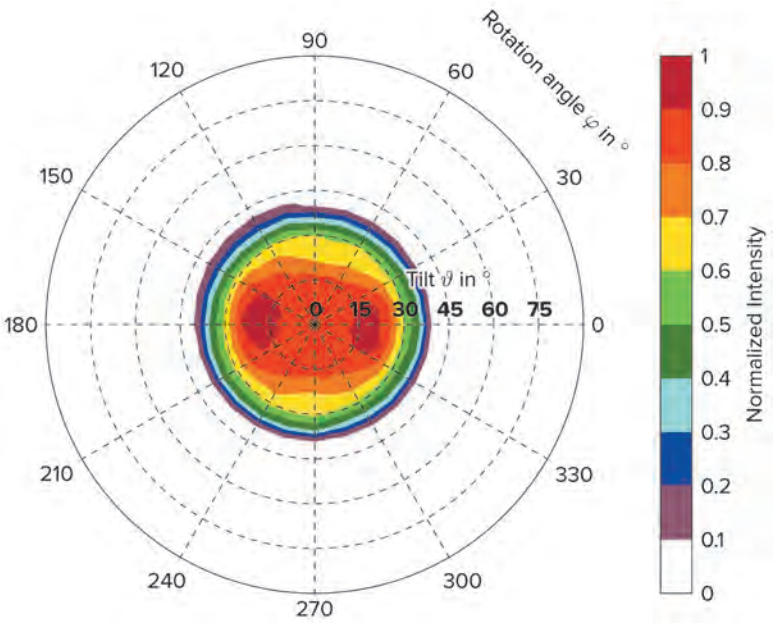


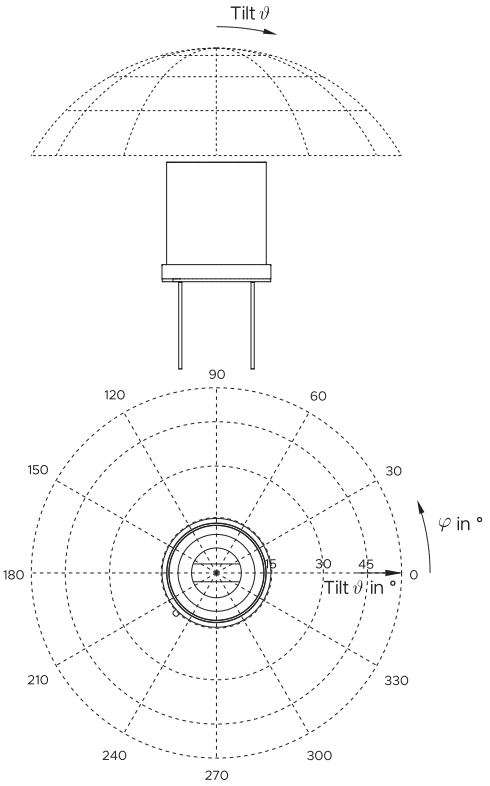
HIS2000R-0WC

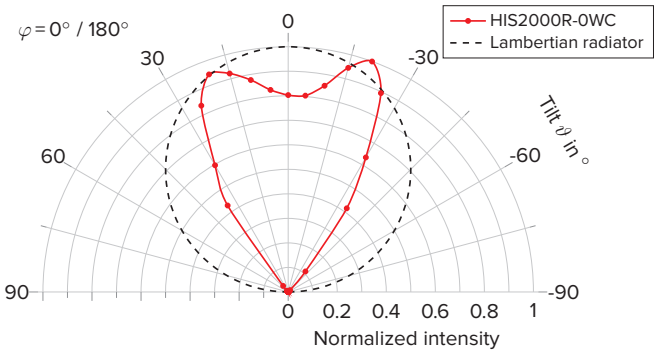


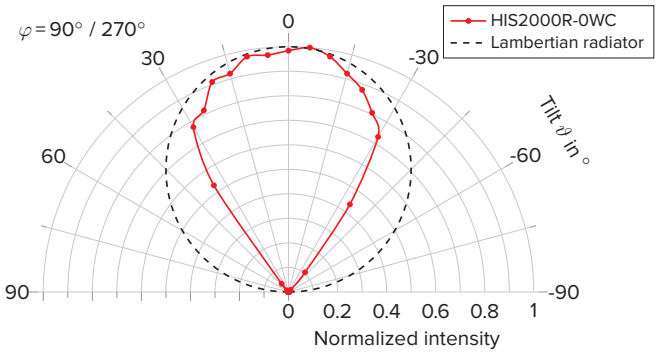


Angular radiation distribution









Operating mode recommendation:

All our IR sources can be driven in electrical voltage, current or power regulated mode. The application decides whether the operating mode is DC or AC (pulsed). Depending on the drive mode and the applied electrical power the electrical resistance of the IR emitter can change over time. For highest measurement accuracy a power regulated mode is always recommended for thermal IR emitters. However, it is the most complex operating mode and not suitable in all applications.

For applications that require a small and low-cost driving circuit with a maximum stability we have a technical note with an adjustable low dropout voltage (LDO) regulator.

For further information please refer to:
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Data Sheet HIS*power*

HIS2000R-A300-6

TO-8 Thermal Infrared Emitter

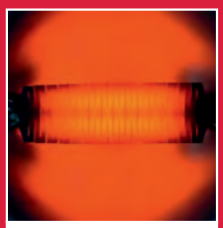
HIS2000R-A300-6

Thermal infrared emitter with Sapphire window, hermetically sealed

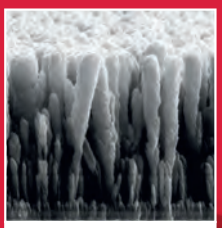
Our HIS2000R-A300-6 is a NiCr filament based thermal emitter in a TO8 package, with a gold plated reflector in a hermetically sealed package with a Sapphire window. This guarantees longterm stability. The shorter cap with a hight of 6 mm improves the optical signal performance.

HIS*power* series emitters have an integrated reflector that directs the radiation emitted from the rear to the front through the housing window in order to achieve maximum efficiency. Infrasolid's advanced packaging technology allows soldered sapphire, CaF_2 and BaF_2 windows for use in a wide temperature range of -25 °C up to +85 °C.

Key features



High radiant power



High efficiency

Low cost

- **Pulsable thermal black-body infrared source mounted in an industry standard TO-8 package.**
- **Patented nanostructured radiating element achieves up to 500% more detection signal!**
- **Lower radiating element temperature of 630 °C increases lifetime!**
- **Soldered, high-quality filter windows guarantee considerably less drift. Leakage tested!**
- **Wide wavelength range enables a broad range of applications.**

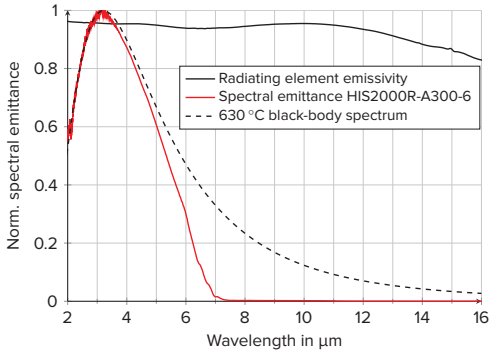
innovative infrared sources for gas detection & spectroscopy

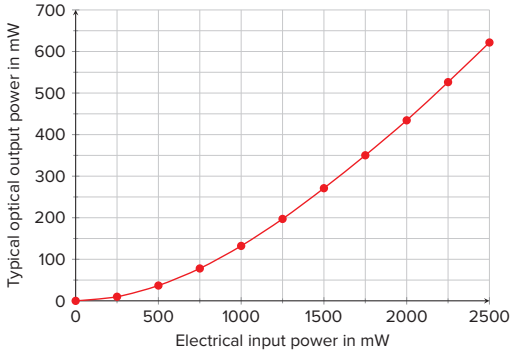
Main specifications

Parameter	HIS2000R-A300-6
Package	TO-8
Radiating element area	40 mm^2
Radiating element emissivity	> 0.9
Radiating element temperature	630 °C at 2.5 W
Optical output power	up to 620 mW
Max. electrical power (DC)	2.5 W
Max. electrical voltage	3.8 V
Max. electrical current	660 mA
Electrical resistance	5...6 Ω
Modulation frequency*	4 Hz
Filter/Window	Sapphire (soldered)
Wavelength range	2 to 6 µm
Filling gas	N_2

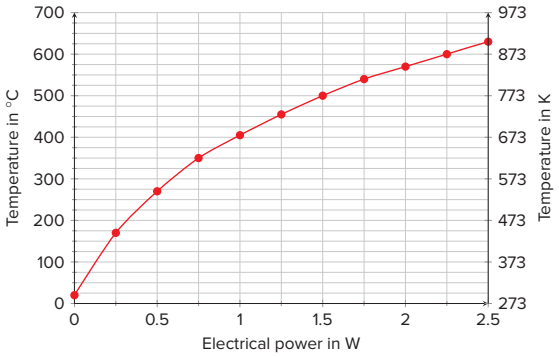
* 50 % modulation depth, square wave signal, 50 % duty cycle

Optical specifications

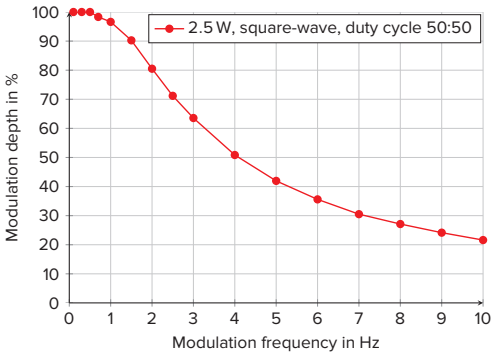




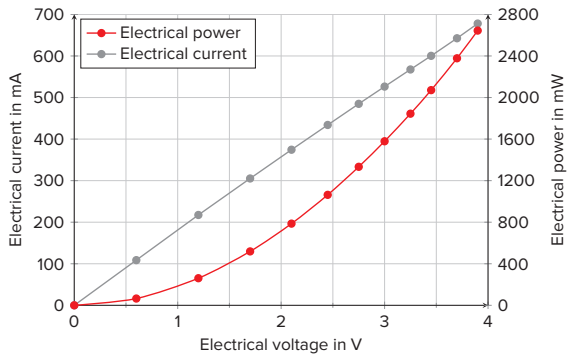
Radiating element temperature



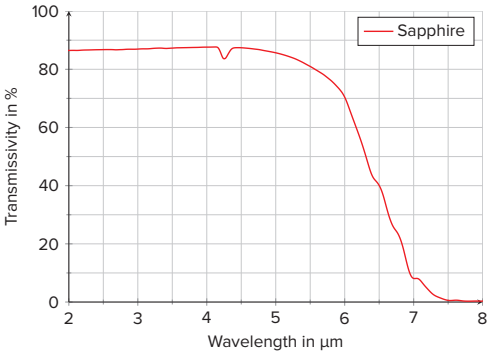
Modulation depth



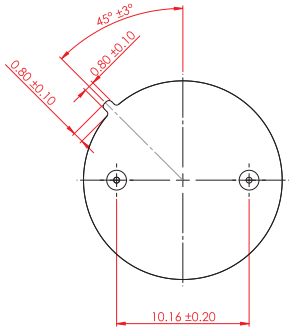
Electrical specifications

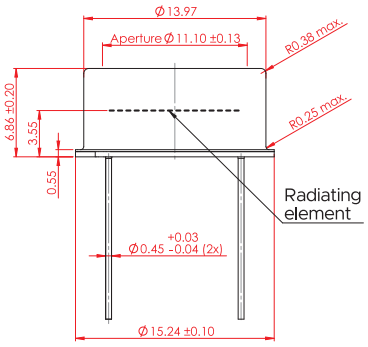


Window material transmissivity

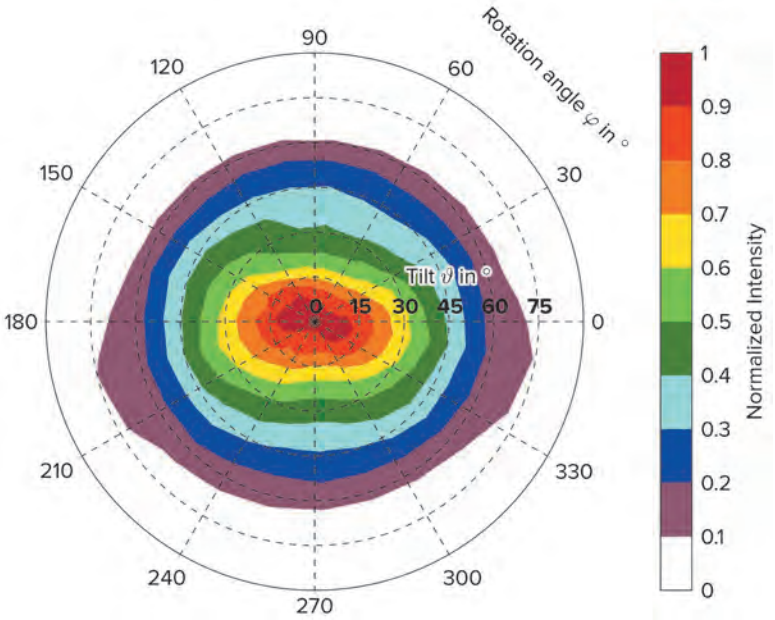


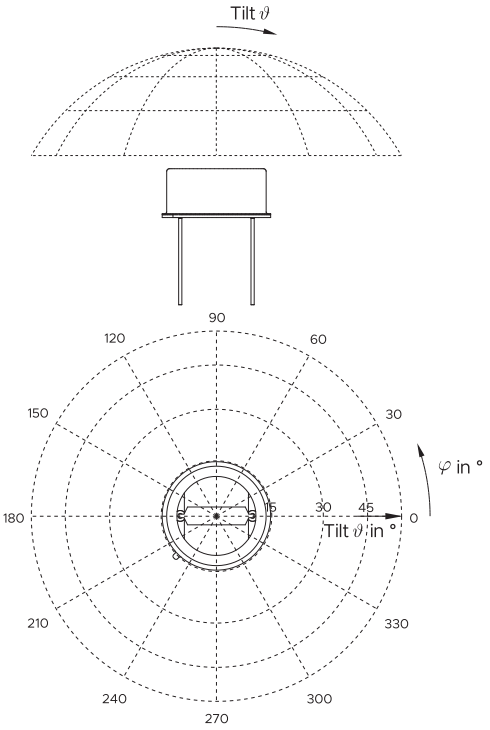
HIS2000R-A300-6

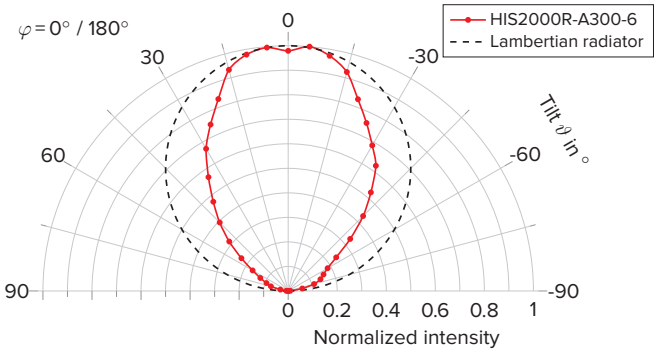


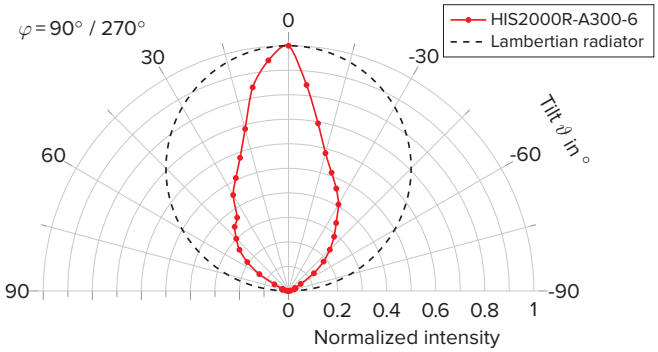


Angular radiation distribution









Operating mode recommendation:

All our IR sources can be driven in electrical voltage, current or power regulated mode. The application decides whether the operating mode is DC or AC (pulsed). Depending on the drive mode and the applied electrical power the electrical resistance of the IR emitter can change over time. For highest measurement accuracy a power regulated mode is always recommended for thermal IR emitters. However, it is the most complex operating mode and not suitable in all applications.

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Data Sheet HIS*power*

HIS2000R-A300-9

TO-8 Thermal Infrared Emitter

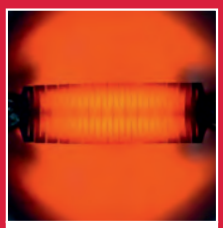
HIS2000R-A300-9

Thermal infrared emitter with Sapphire window, hermetically sealed

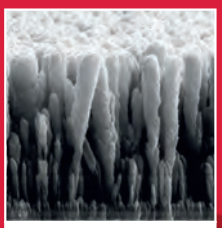
Our HIS2000R-A300-9 is a NiCr filament based thermal emitter in a TO8 package, with a gold plated reflector in a hermetically sealed package with a Sapphire window. This guarantees longterm stability.

HIS*power* series emitters have an integrated reflector that directs the radiation emitted from the rear to the front through the housing window in order to achieve maximum efficiency. Infrasolid's advanced packaging technology allows soldered sapphire, CaF_2 and BaF_2 windows for use in a wide temperature range of -25 °C up to +85 °C.

Key features



High radiant power



High efficiency

Hermetic housing

- **Pulsable thermal black-body infrared source mounted in an industry standard TO-8 package.**
- **Patented nanostructured radiating element achieves up to 500% more detection signal!**
- **Lower radiating element temperature of 630 °C increases lifetime!**
- **High-quality filter windows guarantee considerably less drift. Leakage tested!**
- **Wide wavelength range enables a broad range of applications.**

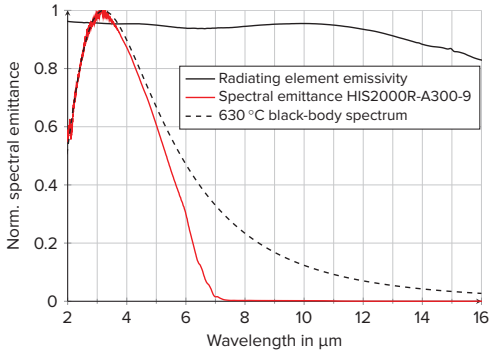
innovative infrared sources for gas detection & spectroscopy

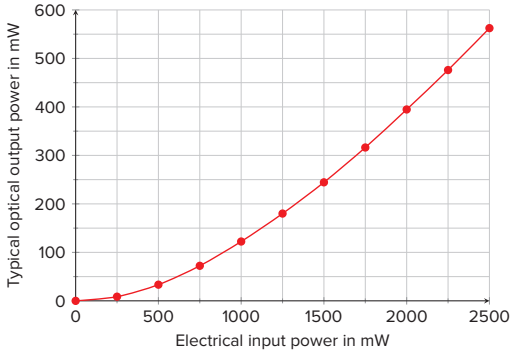
Main specifications

Parameter	HIS2000R-A300-9
Package	TO-8
Radiating element area	40 mm^2
Radiating element emissivity	> 0.9
Radiating element temperature	630 °C at 2.5 W
Optical output power	up to 560 mW
Max. electrical power (DC)	2.5 W
Max. electrical voltage	3.8 V
Max. electrical current	660 mA
Electrical resistance	5...6 Ω
Modulation frequency*	4 Hz
Filter/Window	Sapphire (soldered)
Wavelength range	2 to 6 µm
Filling gas (other gases possible):	N_2

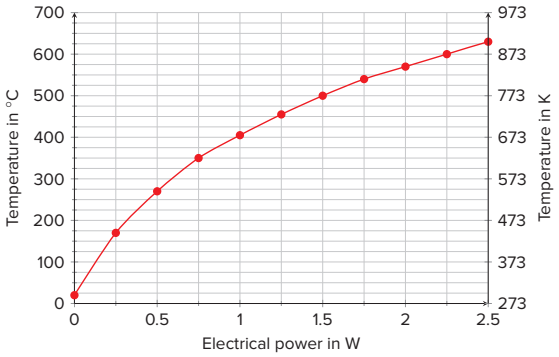
* 50 % modulation depth, square wave signal, 50 % duty cycle

Optical specifications

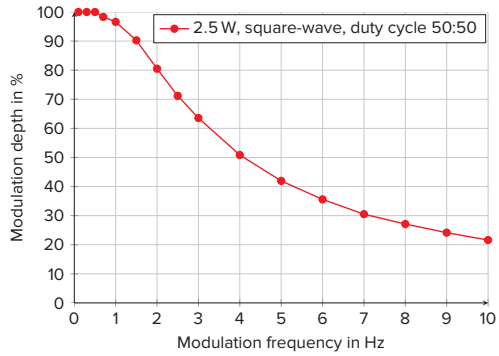




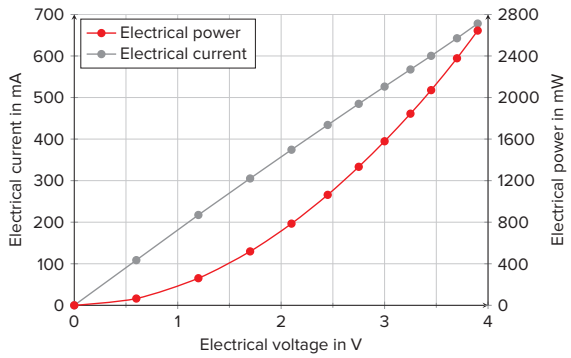
Radiating element temperature



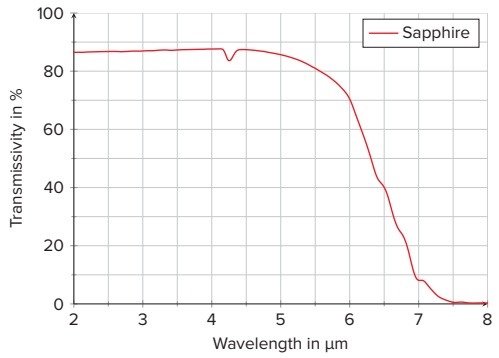
Modulation depth



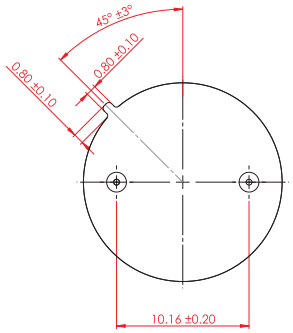
Electrical specifications

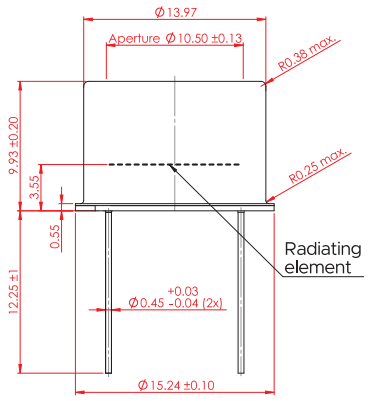


Window material transmissivity

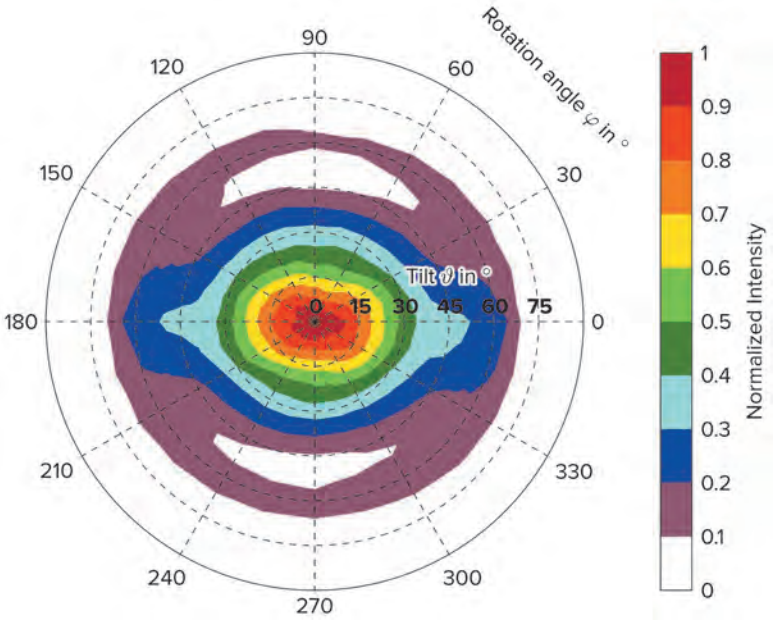


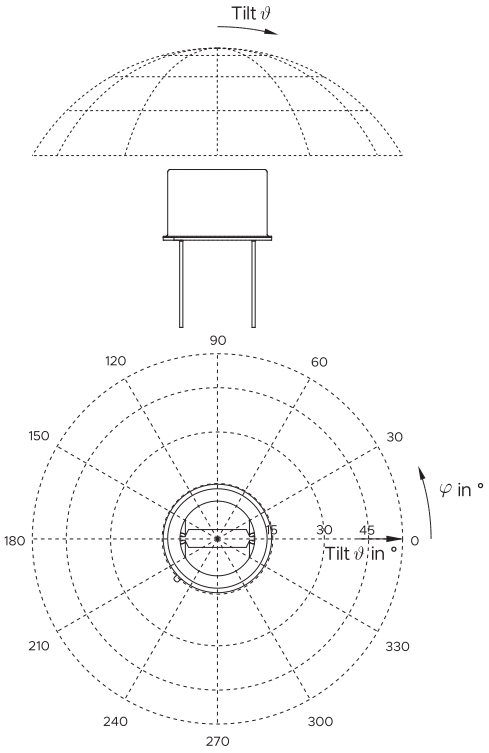
HIS2000R-A300-9

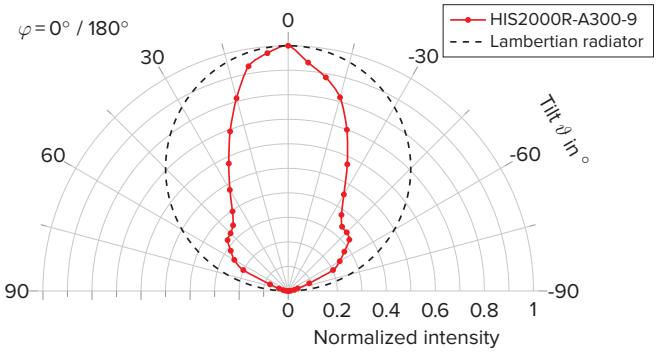


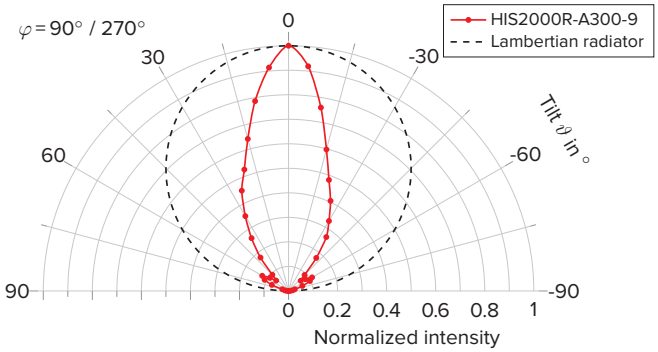


Angular radiation distribution









Operating mode recommendation:

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Data Sheet HIS*power*

HIS2000R-BWC300

TO-8 Thermal Infrared Emitter

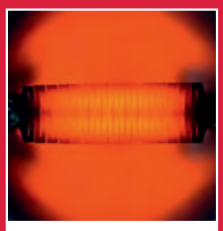
HIS2000R-BWC300

Thermal infrared emitter with Winston cone and BaF_2 window, hermetically sealed

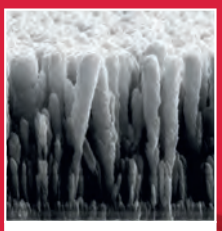
Our HIS2000R-BWC300 is a NiCr filament based thermal emitter in a TO8 package, with a soldered BaF_2 window, filled with N_2 gas. This guarantees hermetically sealed package and long-term stability. The cap with the soldered BaF_2 window is tested with Helium leak test at < 10^{-8} mbar l/s. The gold plated Winston cone collimator bundles and focuses the beam for best optical performance.

HIS*power* series emitters have an integrated reflector that directs the radiation emitted from the rear to the front through the housing window in order to achieve maximum efficiency. Infrasolid's advanced packaging technology allows soldered sapphire, CaF_2 and BaF_2 windows for use in a wide temperature range of -25 °C up to +85 °C.

Key features



High radiant power



High efficiency

Hermetic housing

- **Pulsable thermal black-body infrared source mounted in an industry standard TO-8 package.**
- **Patented nanostructured radiating element achieves up to 500% more detection signal!**
- **Lower radiating element temperature of 630 °C increases lifetime!**
- **Soldered, high-quality filter windows guarantee considerably less drift. Leakage tested!**
- **Wide wavelength range enables a broad range of applications.**

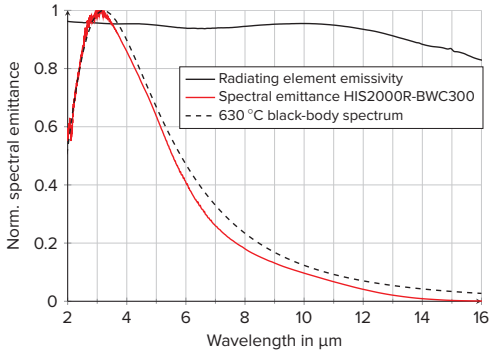
innovative infrared sources for gas detection & spectroscopy

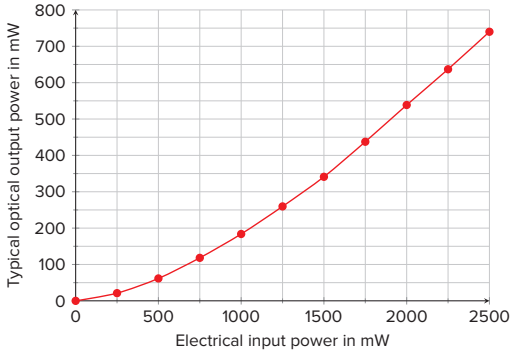
Main specifications

Parameter	HIS2000R-BWC300
Package	TO-8
Radiating element area	40 mm^2
Radiating element emissivity	> 0.9
Radiating element temperature	630 °C at 2.5 W
Optical output power	up to 740 mW
Max. electrical power (DC)	2.5 W
Max. electrical voltage	3.8 V
Max. electrical current	660 mA
Electrical resistance	5...6 Ω
Modulation frequency*	4 Hz
Filter/Window	BaF_2 (soldered)
Wavelength range	2 to 14 µm
Filling gas	N_2

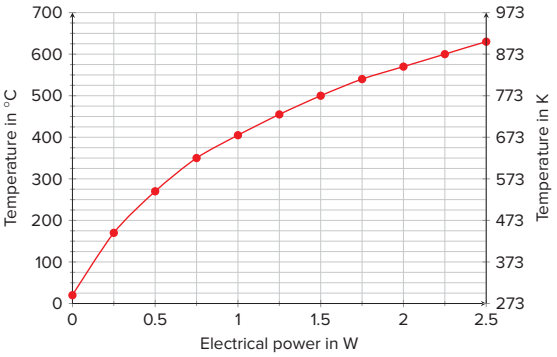
* 50 % modulation depth, square wave signal, 50 % duty cycle

Optical specifications

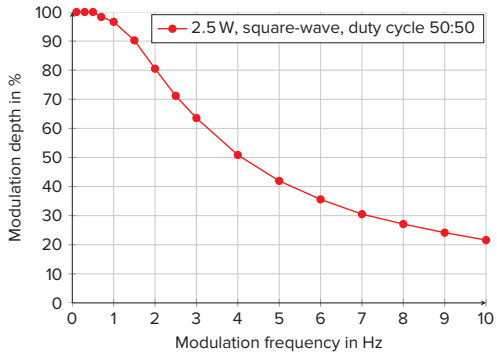




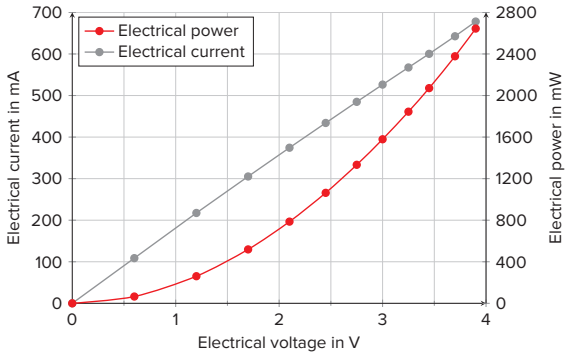
Radiating element temperature



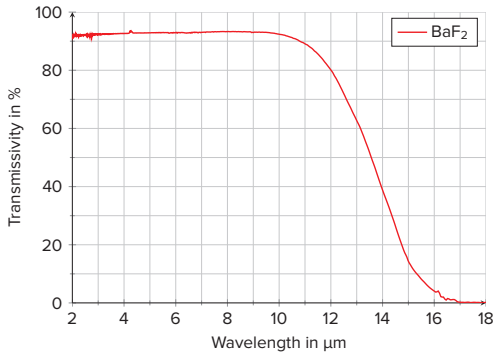
Modulation depth



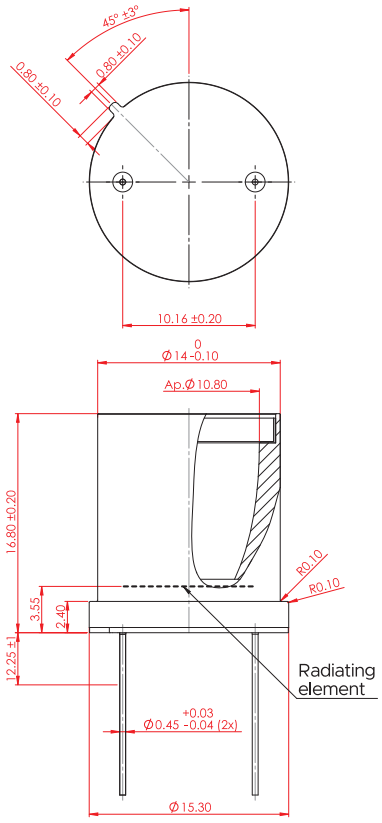
Electrical specifications



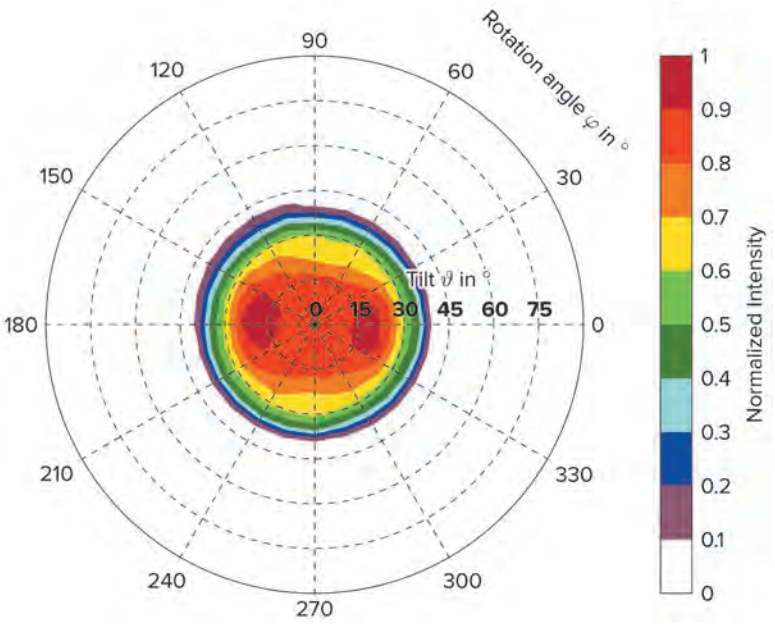
Window material transmissivity

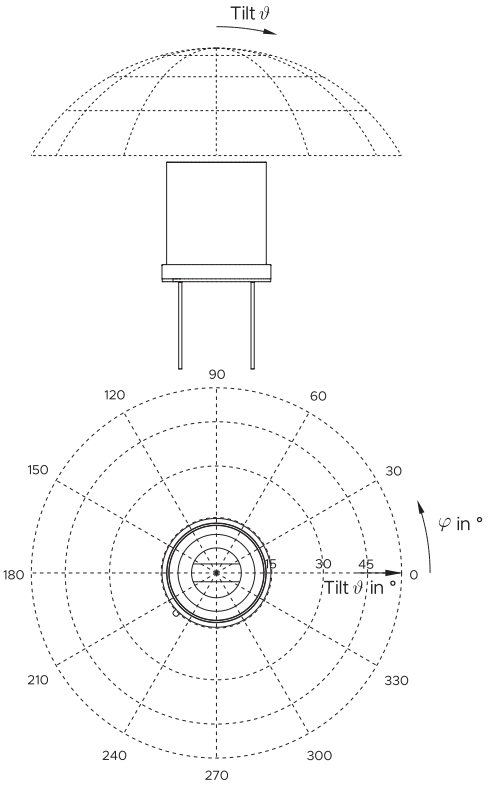


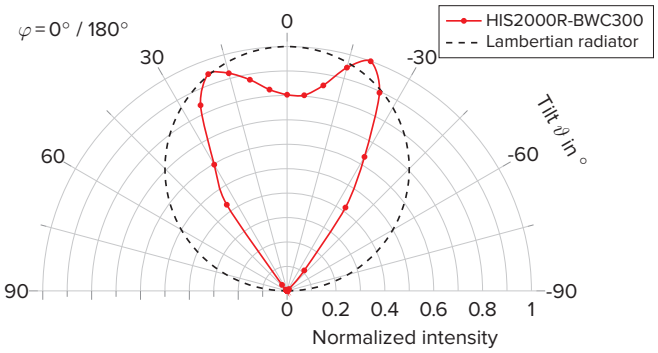
HIS2000R-BWC300

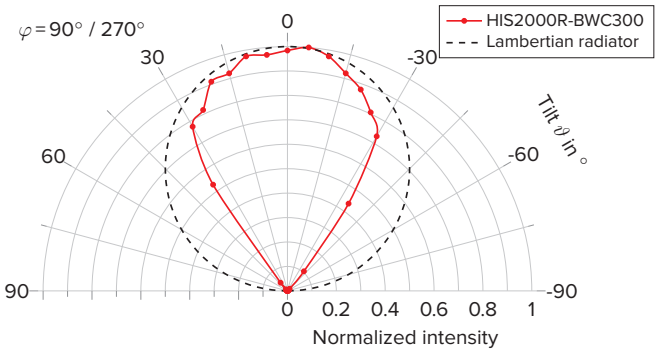


Angular radiation distribution









Operating mode recommendation:

All our IR sources can be driven in electrical voltage, current or power regulated mode. The application decides whether the operating mode is DC or AC (pulsed). Depending on the drive mode and the applied electrical power the electrical resistance of the IR emitter can change over time. For highest measurement accuracy a power regulated mode is always recommended for thermal IR emitters. However, it is the most complex operating mode and not suitable in all applications.

For applications that require a small and low-cost driving circuit with a maximum stability we have a technical note with an adjustable low dropout voltage (LDO) regulator.

For further information please refer to:
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Data Sheet HIS*power*

HIS2000R-C300-6

TO-8 Thermal Infrared Emitter

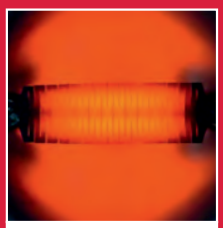
HIS2000R-C300-6

Thermal infrared emitter with CaF_2 window, hermetically sealed

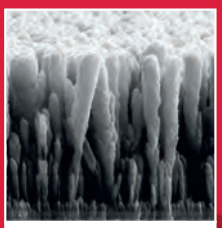
Our HIS2000R-C300-6 is a NiCr filament based thermal emitter in a TO8 package, with a gold plated reflector in a hermetically sealed package with a CaF_2 window. This guarantees longterm stability. The shorter cap with a hight of 6 mm improves the optical signal performance.

HIS*power* series emitters have an integrated reflector that directs the radiation emitted from the rear to the front through the housing window in order to achieve maximum efficiency. Infrasolid's advanced packaging technology allows soldered sapphire, CaF_2 and BaF_2 windows for use in a wide temperature range of -25 °C up to +85 °C.

Key features



High radiant power



High efficiency

Low cost

- **Pulsable thermal black-body infrared source mounted in an industry standard TO-8 package.**
- **Patented nanostructured radiating element achieves up to 500% more detection signal!**
- **Lower radiating element temperature of 630 °C increases lifetime!**
- **High-quality filter windows guarantee considerably less drift. Leakage tested!**
- **Wide wavelength range enables a broad range of applications.**

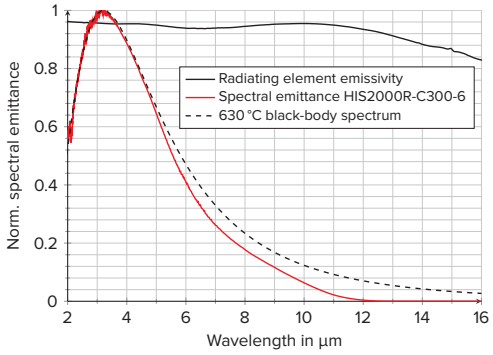
innovative infrared sources for gas detection & spectroscopy

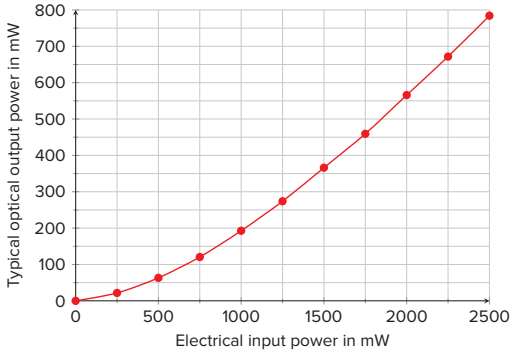
Main specifications

Parameter	HIS2000R-C300-6
Package	TO-8
Radiating element area	40 mm^2
Radiating element emissivity	> 0.9
Radiating element temperature	630 °C at 2.5 W
Optical output power	up to 780 mW
Max. electrical power (DC)	2.5 W
Max. electrical voltage	3.8 V
Max. electrical current	660 mA
Electrical resistance	5...6 Ω
Modulation frequency*	4 Hz
Filter/Window	CaF_2 (glued)
Wavelength range	2 to 11 µm
Filling gas	N_2

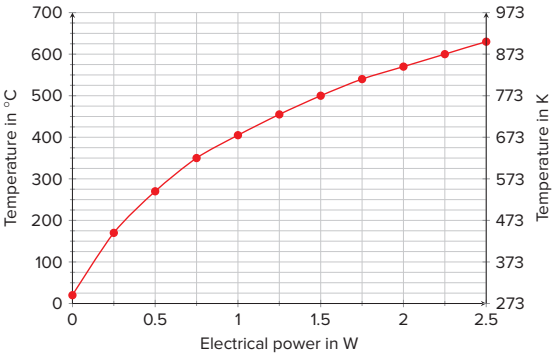
* 50 % modulation depth, square wave signal, 50 % duty cycle

Optical specifications

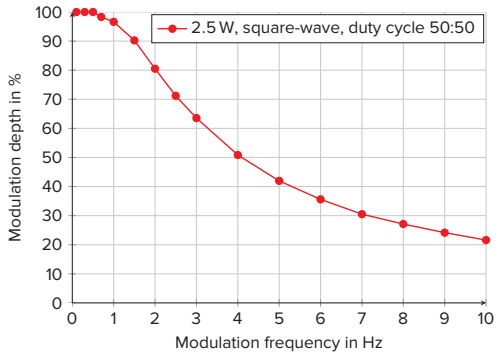




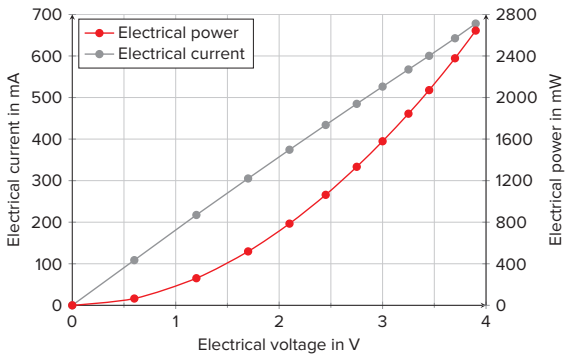
Radiating element temperature



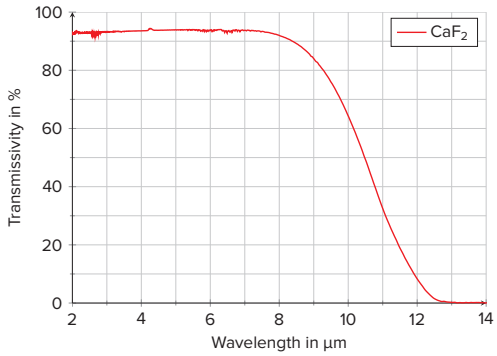
Modulation depth



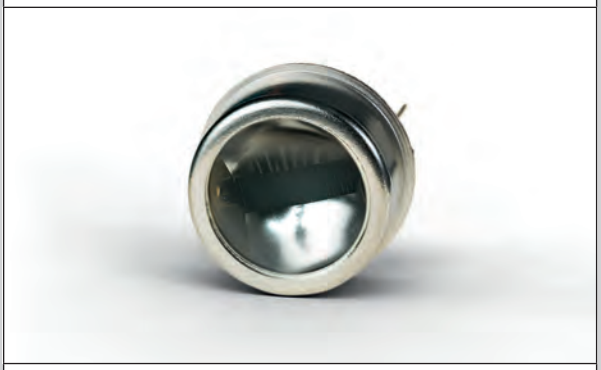
Electrical specifications

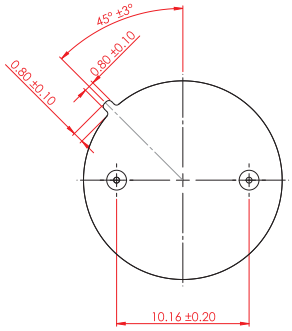


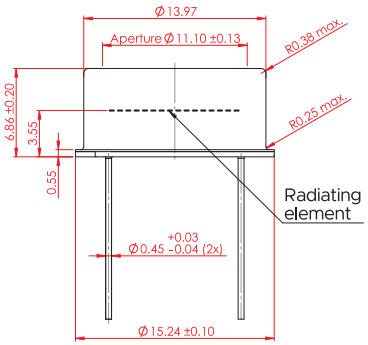
Window material transmissivity



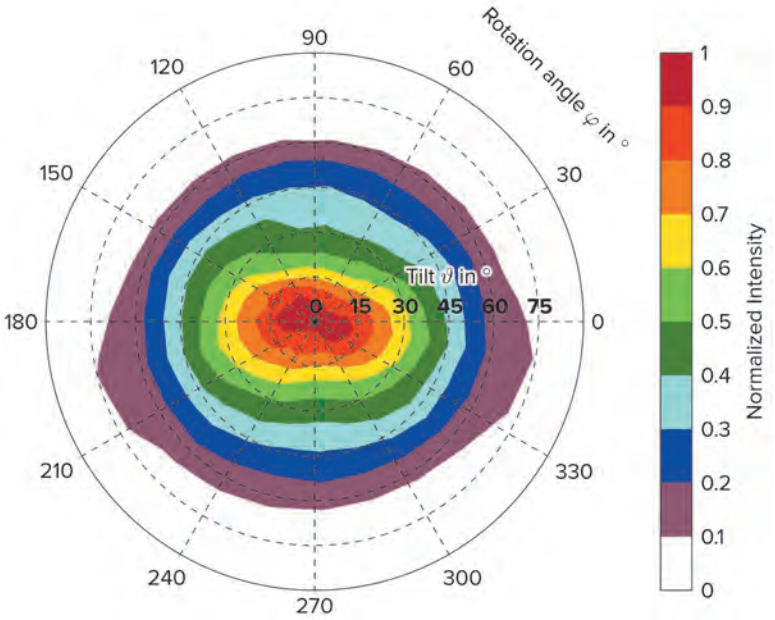
HIS2000R-C300-6

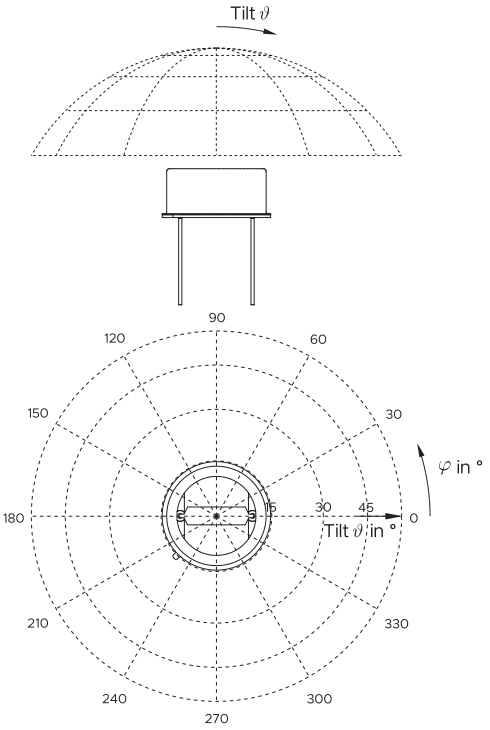


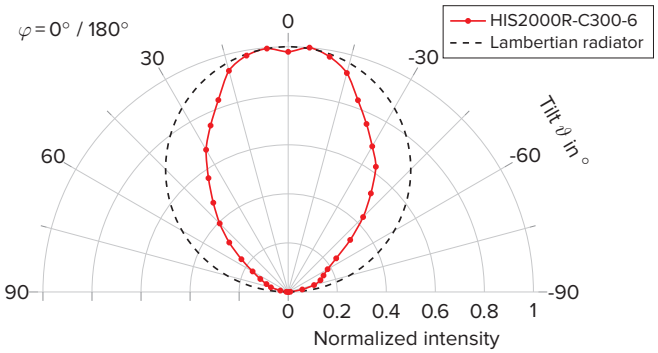


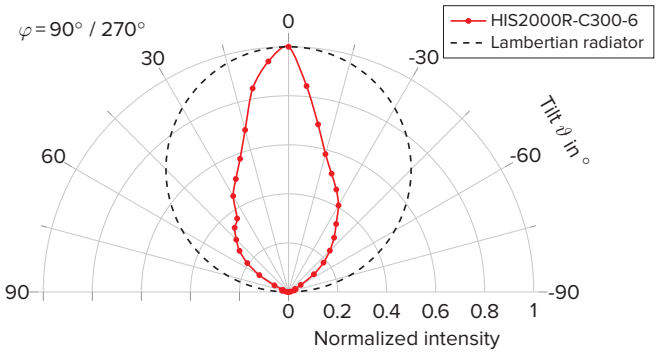


Angular radiation distribution









Operating mode recommendation:

All our IR sources can be driven in electrical voltage, current or power regulated mode. The application decides whether the operating mode is DC or AC (pulsed). Depending on the drive mode and the applied electrical power the electrical resistance of the IR emitter can change over time. For highest measurement accuracy a power regulated mode is always recommended for thermal IR emitters. However, it is the most complex operating mode and not suitable in all applications.

For applications that require a small and low-cost driving circuit with a maximum stability we have a technical note with an adjustable low dropout voltage (LDO) regulator.

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Data Sheet HIS*power*

HIS2000R-C300-9

TO-8 Thermal Infrared Emitter

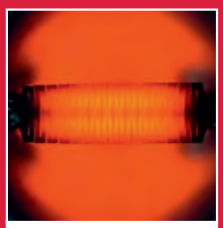
HIS2000R-C300-9

Thermal infrared emitter with CaF_2 window, hermetically sealed

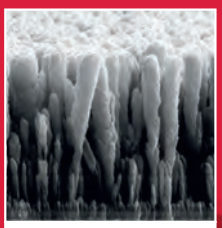
Our HIS2000R-C300-9 is a NiCr filament based thermal emitter in a TO8 package, with a gold plated reflector in a hermetically sealed package with a CaF_2 window. This guarantees longterm stability.

HIS*power* series emitters have an integrated gold plated reflector that directs the radiation emitted from the rear to the front in order to achieve maximum efficiency. All our emitters offer minimum drift at constant resistance (Ohm). Infrasolids IR emitters are characterized by a very low temperature coefficient of electrical resistance. Therefore the hot resistance and the cold resistance are almost identical which eases the electrical control of the IR sources.

Key features



High radiant power



High efficiency

Hermetic housing

- **Pulsable thermal black-body infrared source mounted in an industry standard TO-8 package.**
- **Patented nanostructured radiating element achieves up to 500% more detection signal!**
- **Lower radiating element temperature of 630 °C increases lifetime!**
- **High-quality filter windows guarantee considerably less drift. Leakage tested!**
- **Wide wavelength range enables a broad range of applications.**

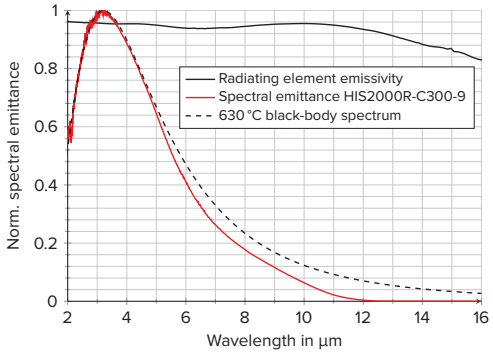
innovative infrared sources for gas detection & spectroscopy

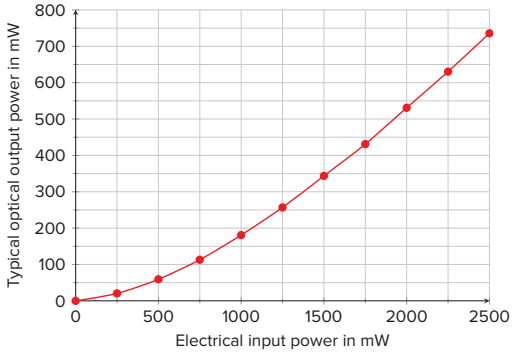
Main specifications

Parameter	HIS2000R-C300-9
Package	TO-8
Radiating element area	40 mm^2
Radiating element emissivity	> 0.9
Radiating element temperature	630 °C at 2.5 W
Optical output power	up to 730 mW
Max. electrical power (DC)	2.5 W
Max. electrical voltage	3.8 V
Max. electrical current	660 mA
Electrical resistance	5...6 Ω
Modulation frequency*	4 Hz
Filter/Window	CaF_2 (glued)
Wavelength range	2 to 11 µm
Filling gas	N_2

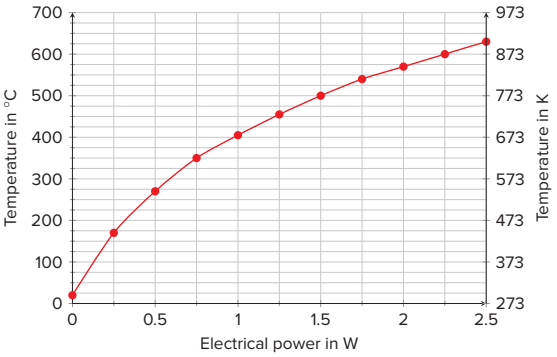
* 50 % modulation depth, square wave signal, 50 % duty cycle

Optical specifications

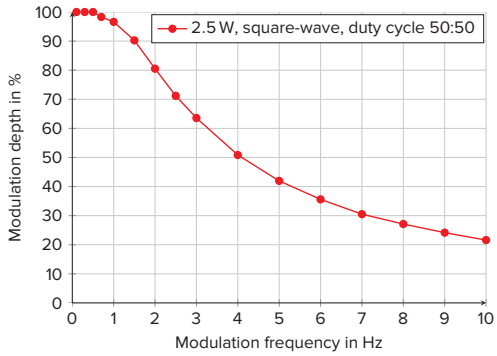




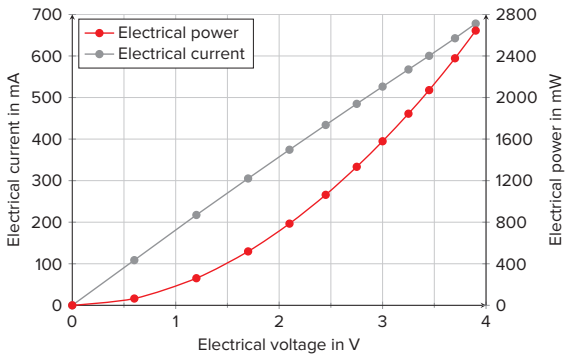
Radiating element temperature



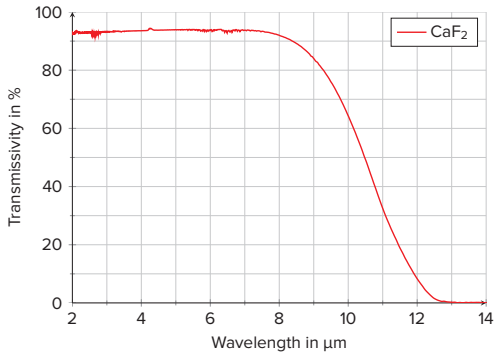
Modulation depth



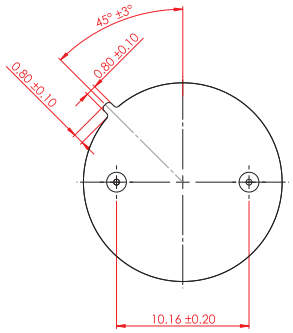
Electrical specifications

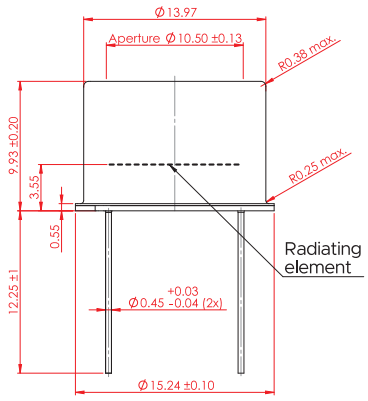


Window material transmissivity

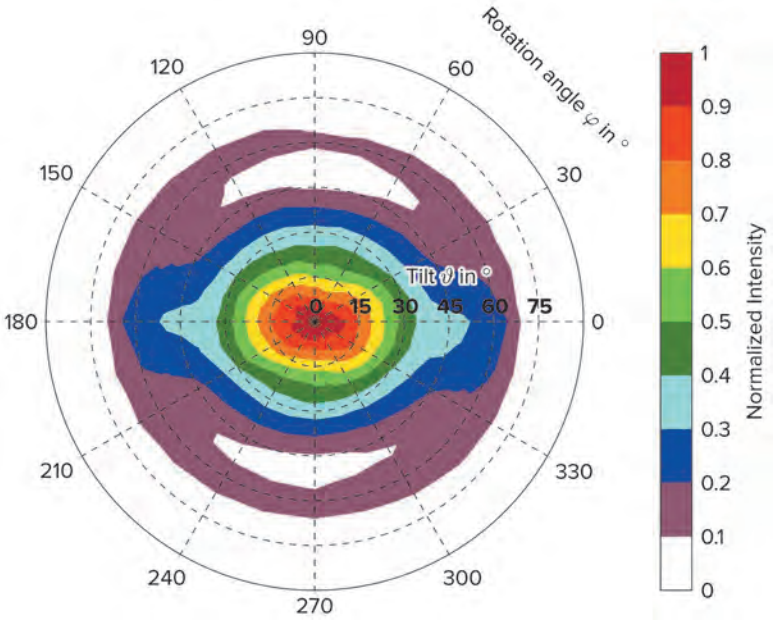


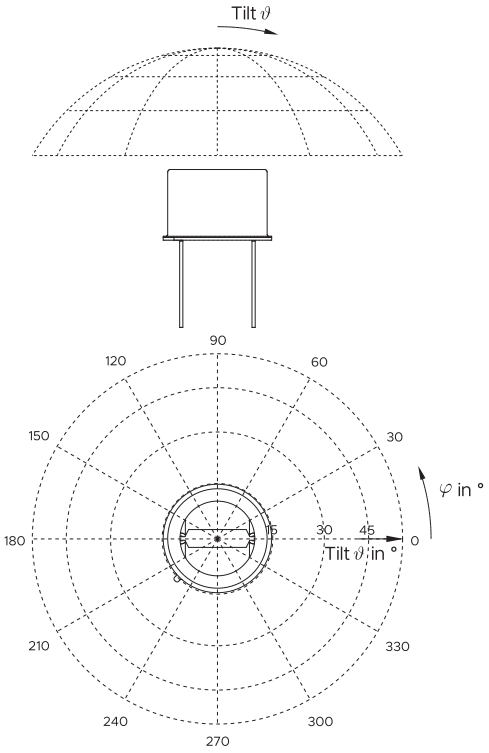
HIS2000R-C300-9

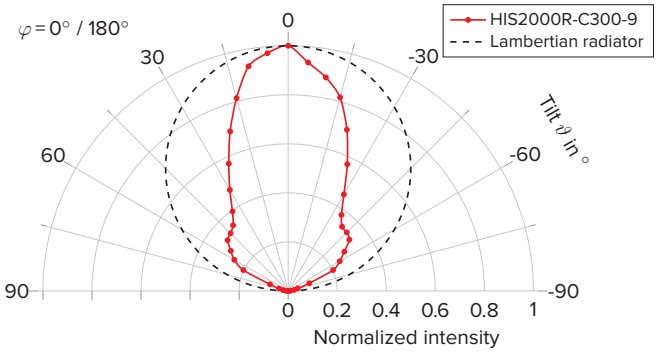


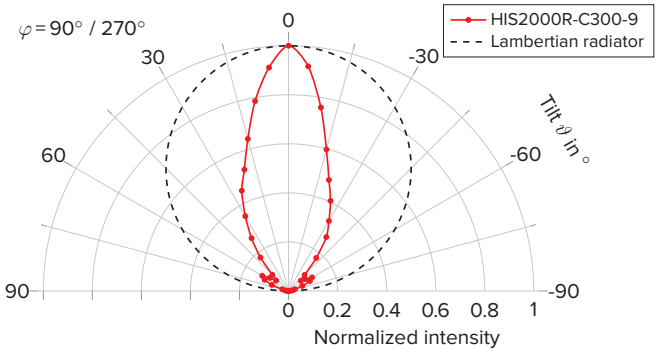


Angular radiation distribution









Operating mode recommendation:

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Data Sheet HIS*power*

HIS2000R-CWC300

TO-8 Thermal Infrared Emitter

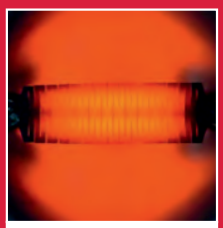
HIS2000R-CWC300

Thermal infrared emitter with Winston cone and CaF_2 window, hermetically sealed

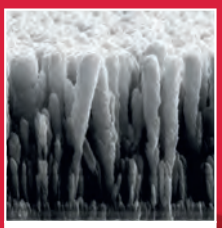
Our HIS2000R-CWC300 is a NiCr filament based thermal emitter in a TO8 package, with a soldered CaF_2 window, filled with N_2 gas. This guarantees hermetically sealed package and long-term stability. The cap with the soldered CaF_2 window is tested with Helium leak test at < 10^{-8} mbar l/s. The gold plated Winston cone collimator bundles and focuses the beam for best optical performance.

HISpower series emitters have an integrated reflector that directs the radiation emitted from the rear to the front through the housing window in order to achieve maximum efficiency. Infrasolid's advanced packaging technology allows soldered sapphire, CaF_2 and BaF_2 windows for use in a wide temperature range of -25 °C up to +85 °C.

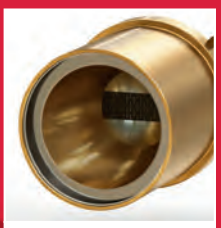
Key features



High radiant power



High efficiency



Hermetic housing

- **Pulsable thermal black-body infrared source mounted in an industry standard TO-8 package.**
- **Patented nanostructured radiating element achieves up to 500% more detection signal!**
- **Lower radiating element temperature of 630 °C increases lifetime!**
- **Soldered, high-quality filter windows guarantee considerably less drift. Leakage tested!**
- **Wide wavelength range enables a broad range of applications.**

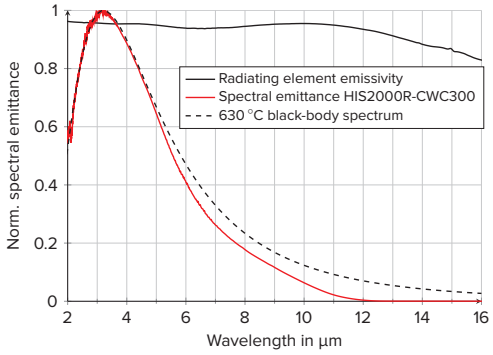
innovative infrared sources for gas detection & spectroscopy

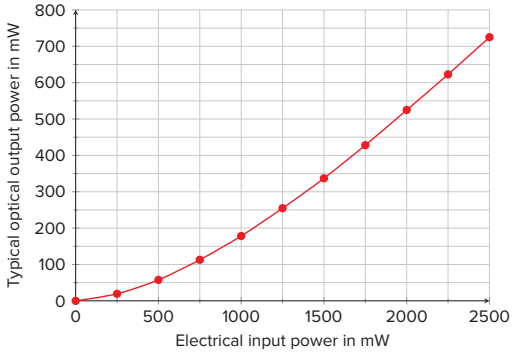
Main specifications

Parameter	HIS2000R-CWC300
Package	TO-8
Radiating element area	40 mm^2
Radiating element emissivity	> 0.9
Radiating element temperature	630 °C at 2.5 W
Optical output power	up to 725 mW
Max. electrical power (DC)	2.5 W
Max. electrical voltage	3.8 V
Max. electrical current	660 mA
Electrical resistance	5...6 Ω
Modulation frequency*	4 Hz
Filter/Window	CaF_2 (soldered)
Wavelength range	2 to 11 µm
Filling gas	N_2

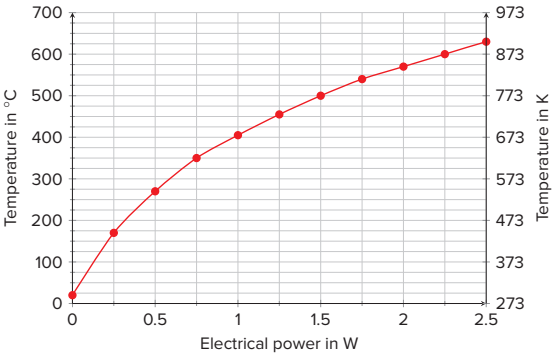
* 50 % modulation depth, square wave signal, 50 % duty cycle

Optical specifications

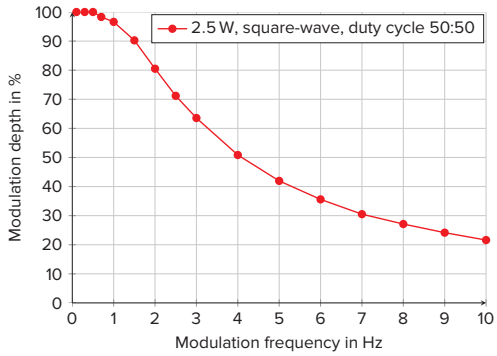




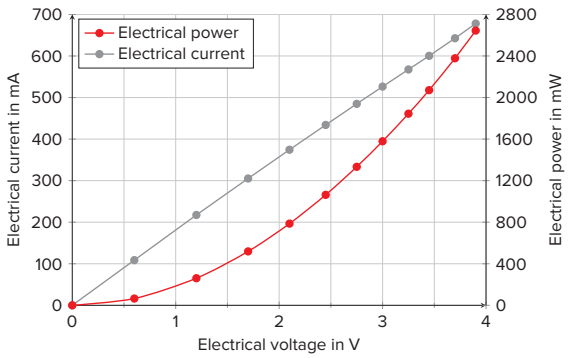
Radiating element temperature



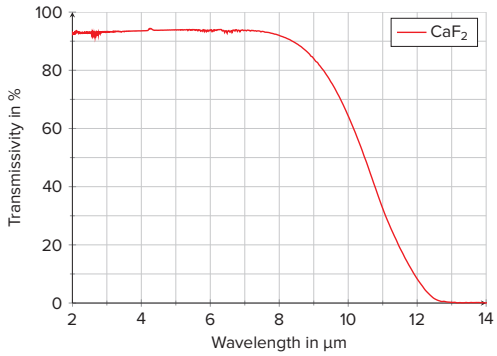
Modulation depth



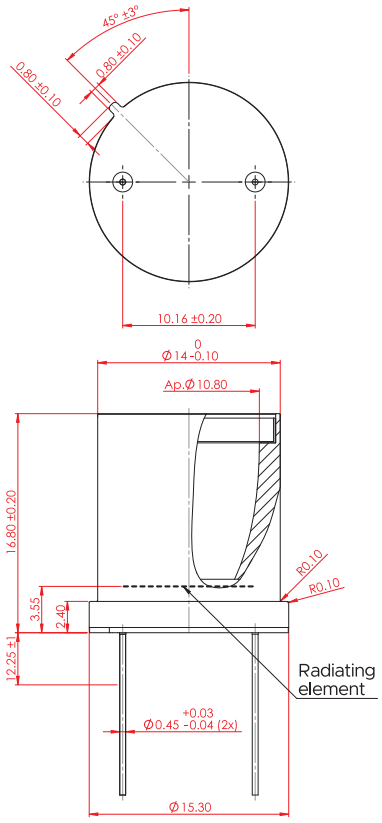
Electrical specifications



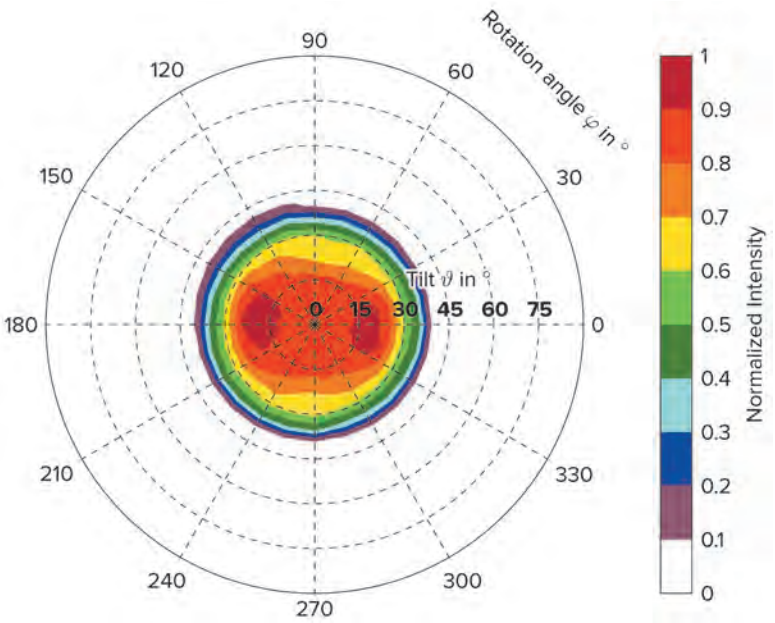
Window material transmissivity

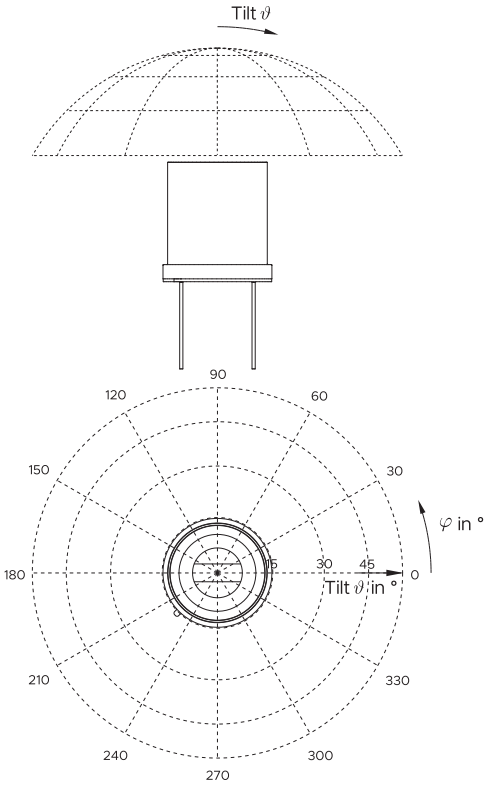


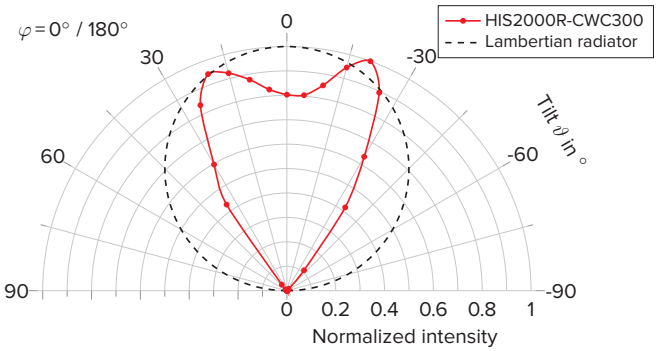
HIS2000R-CWC300

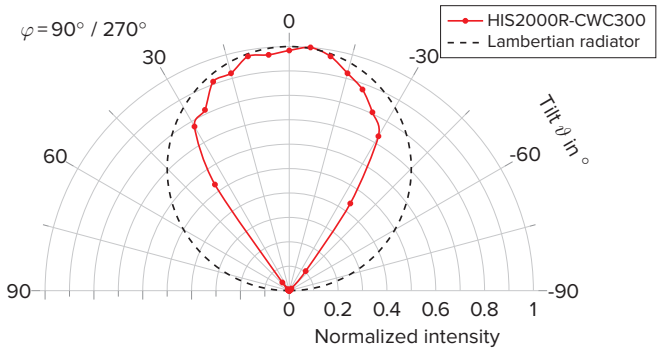


Angular radiation distribution









Operating mode recommendation:

All our IR sources can be driven in electrical voltage, current or power regulated mode. The application decides whether the operating mode is DC or AC (pulsed). Depending on the drive mode and the applied electrical power the electrical resistance of the IR emitter can change over time. For highest measurement accuracy a power regulated mode is always recommended for thermal IR emitters. However, it is the most complex operating mode and not suitable in all applications.

For applications that require a small and low-cost driving circuit with a maximum stability we have a technical note with an adjustable low dropout voltage (LDO) regulator.

For further information please refer to:
www.infrasolid.com/technicalnote

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