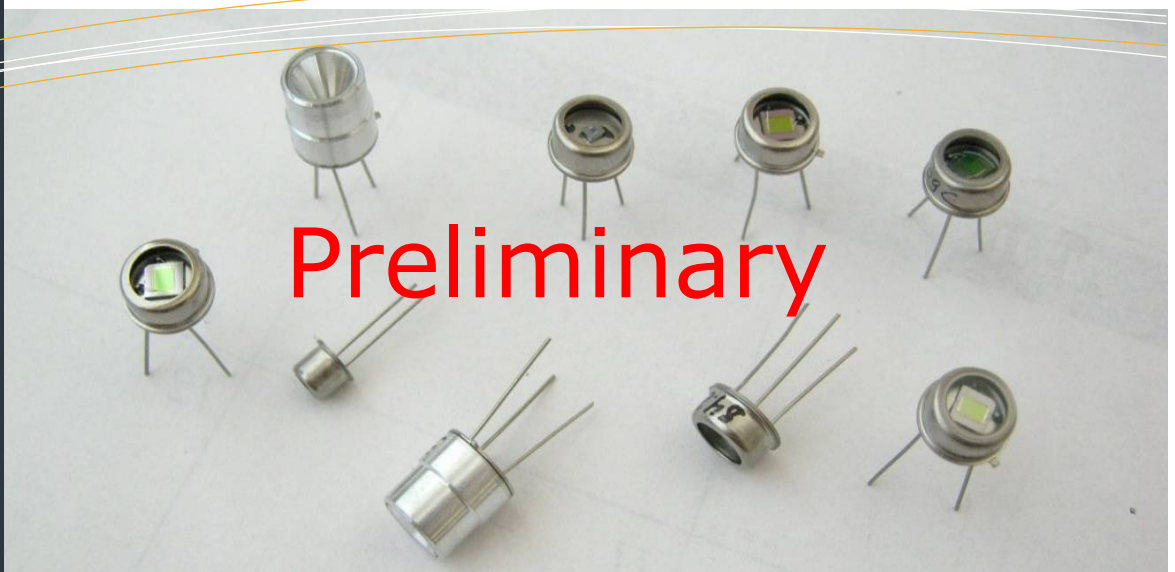
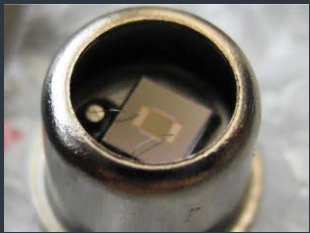


INTX 08-0300

Wideband Infrared Emitter



Benefits

Pulsable up to 200Hz

High Operating Temperature

Wideband Emission
1-20 μm

High Efficiency

Long Life

Very Stable Resistance

High Emissivity

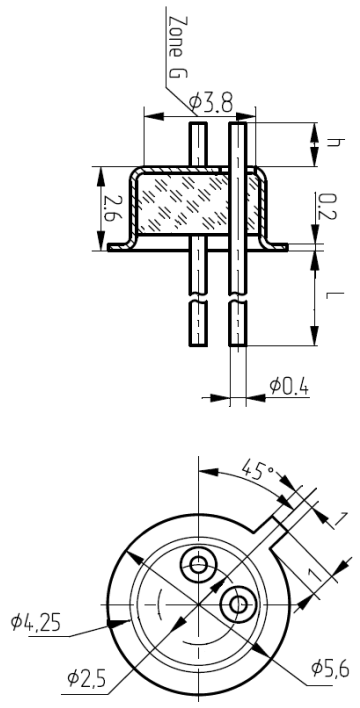
Reflector and Window Options

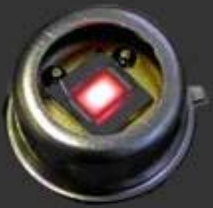
Intex's unique quasi-black body pulsed infrared (IR) emitters can operate at higher frequencies and higher temperatures than the competition, delivering a higher Signal-to-Noise Ratio for your application.

Blackbody Infrared Radiation Emitters

- Gas Analyzers
- Photo Acoustic Analyzers
- Mid IR Beacons
- Reference and Calibration Sources

Electrical Parameters			
	Min.	Typical	Max.
Resistance, ohms at Operating Temperature	15.8	20.8	25.8
Resistance, ohms at Room Temperature		13.8	
Drive Voltage, volts at Operating Temperature		2.2 2.5 Max	
Drive Current, mA at Operating Temperature		105 120 Max	
Drive Power, mW at Operating Temperature		230 300 Max	
Modulation Frequency	1-200 Hz Typical		
Modulation Depth	100% at 10 Hz 50% at 140 Hz		
Modeling Parameters			
Thermal Time Constant	10 mS		
Operating Temperature	750 C		
Heated Membrane Area	0.64 mm ² 0.8 X 0.8 mm		
Emissivity, 2 - 14 microns	.90		
Spectral Range	1 - 20 microns		
Physical Parameters			
Average Lifetime, at 10 Hz, 50% duty cycle	TBD		
Package	TO-18, 2 pin		





INTX 17-0900 Wideband Infrared Emitter

Benefits

Pulsable up to
100Hz

High Operating
Temperature

Wideband Emission
1-20 μm

High Efficiency

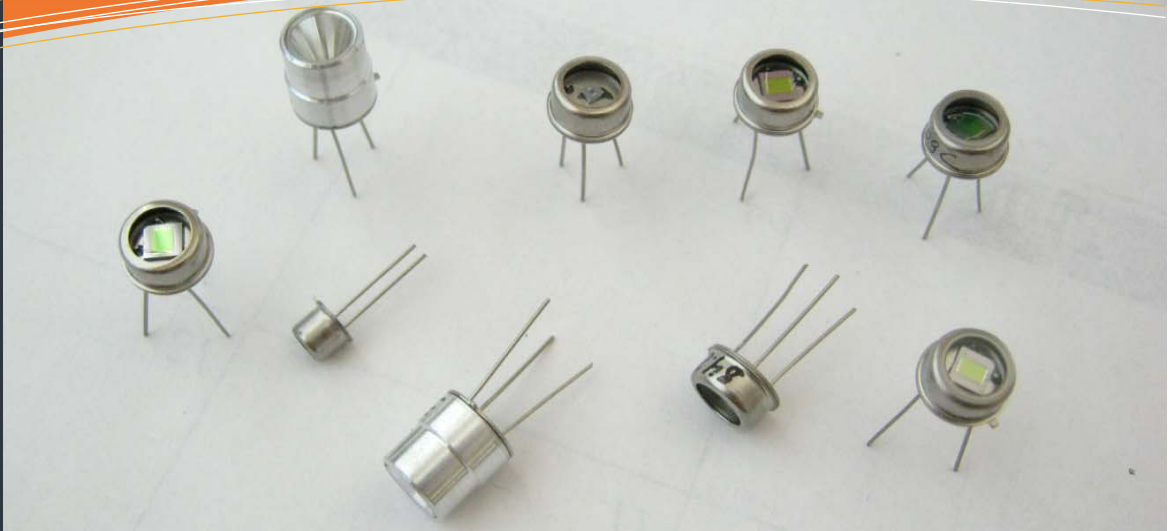
Long Life
>10 years at 605°C

Very Stable
Resistance

High Emissivity

Reflector and
Window Options

Intex's unique quasi-black body pulsed infrared (IR) emitters can operate at higher frequencies and higher temperatures than the competition, delivering a higher Signal-to-Noise Ratio for your application.



Blackbody Infrared Radiation Emitters

- Gas Analyzers
- Photo Acoustic Analyzers
- Mid IR Beacons
- Reference and Calibration Sources

Electrical Parameters

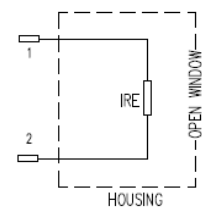
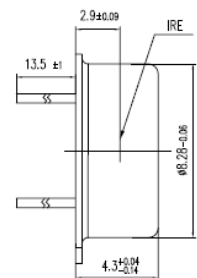
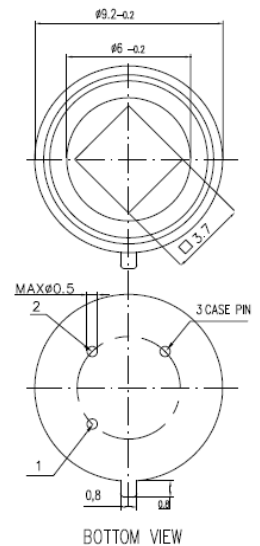
	Min.	Typical	Max.
Resistance, ohms at Operating Temperature	40	50	60
Resistance, ohms at Room Temperature		48	
Drive Voltage, volts at Operating Temperature		5.9 6.7 max.	
Drive Current, mA at Operating Temperature		117 134 max.	
Drive Power, mW at Operating Temperature		690 900 max.	
Modulation Frequency	1-100 Hz Typical		
Modulation Depth	99.9% at 10 Hz 50% at 100 Hz		

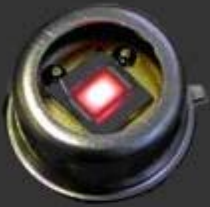
Modeling Parameters

Thermal Time Constant	14.4 mS
Operating Temperature	605 C 750 C max.
Heated Membrane Area	2.89 mm ² 1.7 X 1.7 mm
Emissivity, 2 - 14 microns	.80
Spectral Range	1 - 20 microns

Physical Parameters

Average Lifetime, at 10 Hz, 50% duty cycle	100,000 hrs at 605 C 5,000 hrs at 750 C
Package	TO-5, TO-39, 3 pin





INTX 22-1000

Wideband Infrared Emitter



Benefits

Pulsable up to 100Hz

High Operating Temperature

Wideband Emission
1-20 μm

High Efficiency

Long Life
>10 years at 605°C

Very Stable Resistance

High Emissivity

Reflector and Window Options

Intex's unique quasi-black body pulsed infrared (IR) emitters can operate at higher frequencies and higher temperatures than the competition, delivering a higher Signal-to-Noise Ratio for your application.

Blackbody Infrared Radiation Emitters

- Gas Analyzers
- Photo Acoustic Analyzers
- Mid IR Beacons
- Reference and Calibration Sources

Electrical Parameters

	Min.	Typical	Max.
Resistance, ohms at Operating Temperature	35	45	55
Resistance, ohms at Room Temperature		43	
Drive Voltage, volts at Operating Temperature		5.9 6.7 Max	
Drive Current, mA at Operating Temperature		130 149 Max	
Drive Power, mW at Operating Temperature		767 1,000 Max	
Modulation Frequency	1-100 Hz Typical		
Modulation Depth	99% at 10 Hz 50% at 70 Hz		

Modeling Parameters

Thermal Time Constant	20.0 mS
Operating Temperature	605 C 750 C Max
Heated Membrane Area	4.80 mm ² 2.2 X 2.2 mm
Emissivity, 2 - 14 microns	0.80
Spectral Range	1 - 20 microns

Physical Parameters

Average Lifetime, at 10 Hz, 50% duty cycle	100,000 hrs at 605 C 5,000 hrs at 750 C
Package	TO-5, TO-39, 3 pin

