



INTX 22-1000-SM Wideband Infrared Emitter

Benefits

Pulsable up to
100Hz

High Operating
Temperature

Wideband Emission
1-20 μ

High Efficiency

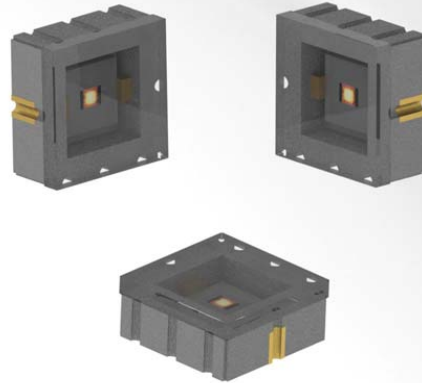
Long Life

Very Stable
Resistance

High Emissivity

Window Options

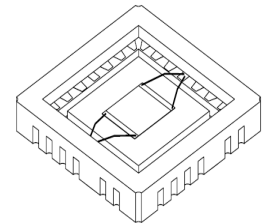
Intex's unique quasi-black body pulsed infrared (IR) emitters are capable of operating at higher frequencies and higher temperatures than typical competitors. This delivers higher Signal to Noise Ratio in your application.



**Preliminary
Announcement**

**Now available in
surface mount
package**

View without filter



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 1,000Max | |

Modulation Frequency 1-100 Hz Typical

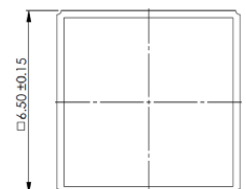
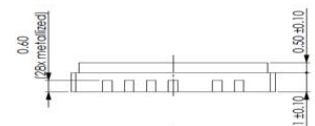
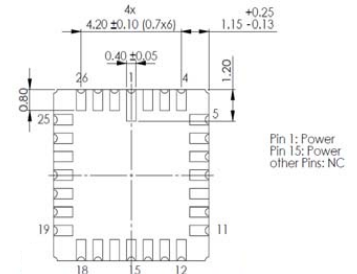
Modulation Depth 99% at 10 Hz
50% at 70 Hz

Modeling Parameters

| | |
|--------------------------|--------------------------------------|
| Thermal Time Constant | 20 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 | 0.8 |
| Spectral Range | 1 - 20 microns |

Physical Parameters

| | |
|---|--------------------|
| Average Lifetime, at 10 Hz, 50% duty cycle | 100,000 hrs |
| Package | Kyocera KD-DBOG-18 |



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