




Benefits

- Pulsable up to 100Hz
- High Operating Temperature
- Wideband Emission 1-20 μ
- 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 are capable of operating at higher frequencies and higher temperatures than typical competitors. This delivers higher Signal to Noise Ratio in your application.

INTX 22-1000

Wideband Infrared Emitter



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 | .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 2 pin

