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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