

IRE2RAC

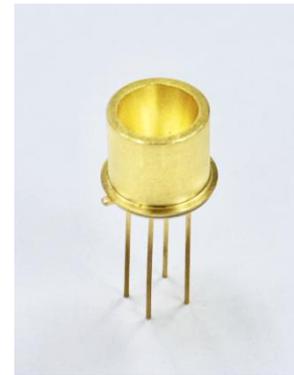
Resistive Infrared Emitter

High performance IR source for NDIR applications

IRE2RA series is a thermal black body with wide wavelength range and low power consumption. It consists of a thin resistive heating element integrated in a thin dielectric membrane. This allows fast modulation due to the low thermal mass of the element. It can be used for NDIR gas detection.

Features

- TO-5 Packaged
- Fast Response
- Lamp heat source used for NDIR gas sensor devices
- Without filter or lens attached

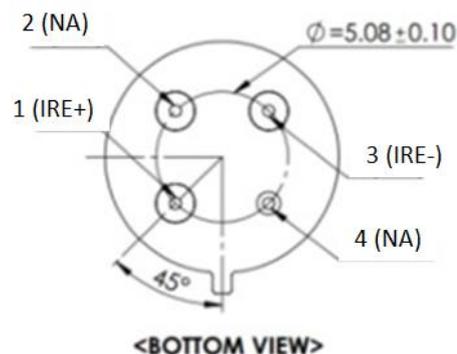


Technical Specifications

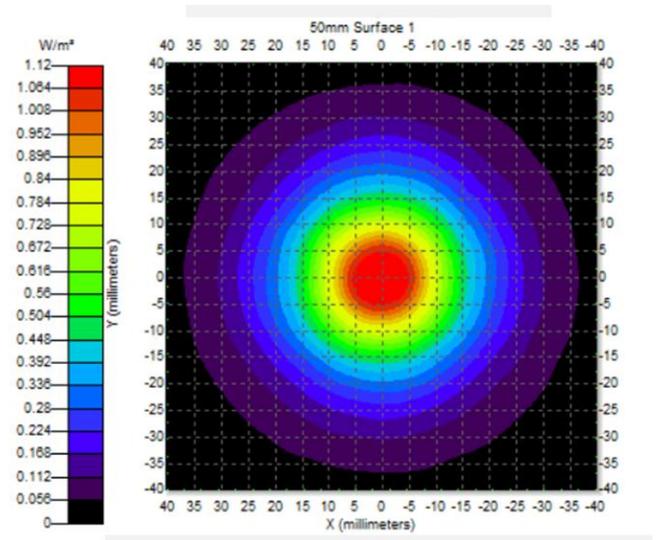
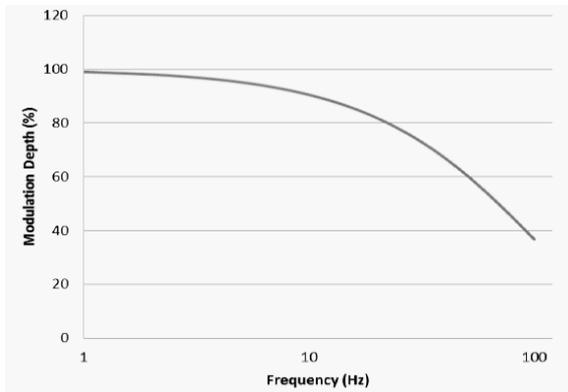
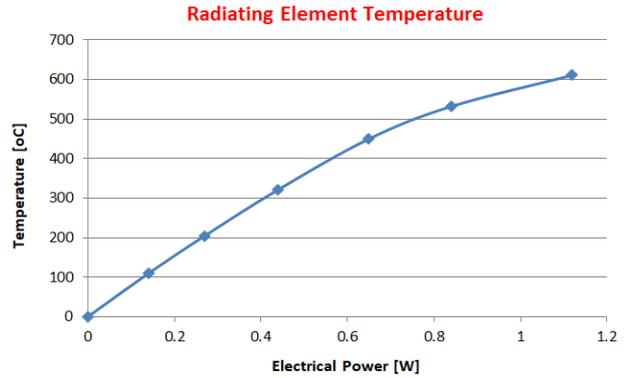
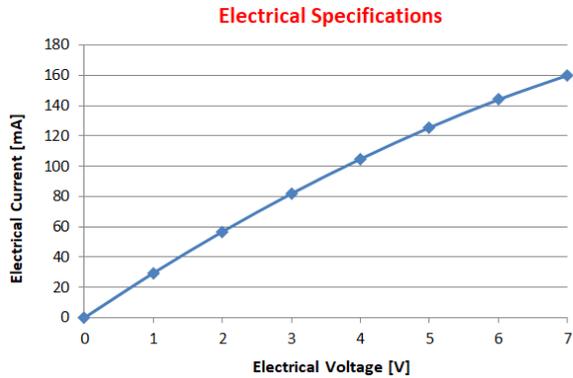
IRE SPECIFICATIONS			
Parameter	Value	Units	Notes
Package	TO-5		
Window Size	6	mm	diameter
Radiating Element Area	1.9x1.9	mm ²	
Working Temperature	450	°C	max
Resistance	23	Ω	
Power Consumption	625	mW	@5.0V
Drive Voltage	5.0	V	For 420°C
Drive Current	125	mA	For 5.0V
Heating time constant	30	ms	10 to 90% rise time
Cooling time constant	10	ms	90 to 10% fall time
Lifetime	50,000	hrs	mean time to failure
Operating Temperature	-40~100	°C	
Storage Temperature	-40~100	°C	

Pin Definitions:

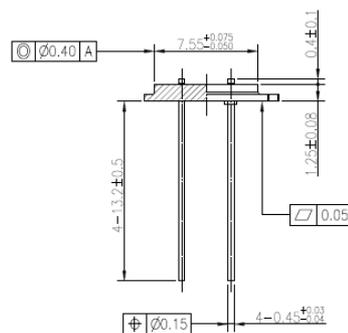
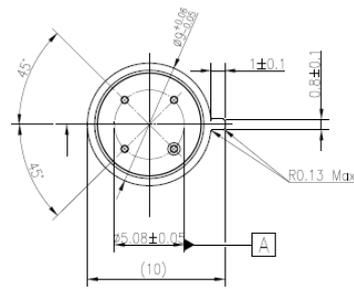
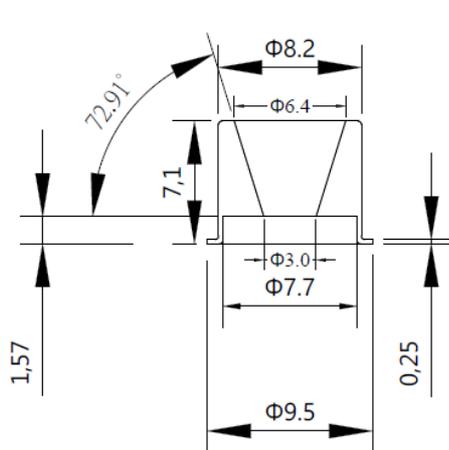
Pin No.	Pin Description
1	IRE+
2	NA
3	IRE-
4	NA



Characteristic Graphs:



Package Outline:



Standard Product Packing Form

Stick Magazine – 50pcs per stick magazine

