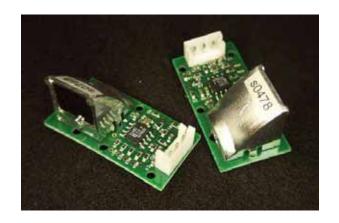
ZTP-115M Thermopile IR Module



The ZTP-115M is a single IR module used for non-contact surface temperature measuring. It consists of a thermopile, IR sensor, signal conditioning and voltage output.

Applications

- Occupancy detection
- HVAC
- Appliance
- Microwave oven

Features

- Non-contact measurement
- Wider surface area measurement
- Small-size sensor package
- Included ambient temperature -(thermistor) sensor for compensation
- High sensitivity
- Fast response time
- Low cost
- Analog output



Specifications

Supply Voltage

Single Supply (+5V)

Supply Current

Typical 2.7 mA

Response Time

0.3 ~ 0.6 second

Range of Measuring Temperature

-40°C ~ 145°C

Operating Temperature

-20°C ~ 100°C

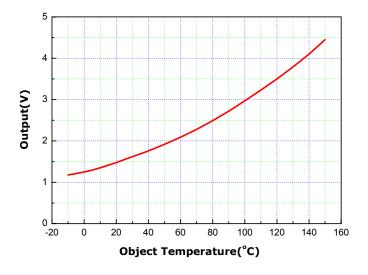
Storage Temperature

-20°C ~ 120°C

Thermopile Sensor

ZTP-115

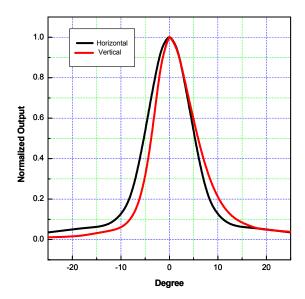
Sensitivity



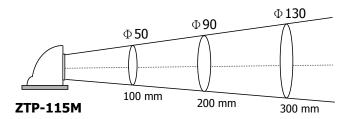
Field of View

- Horizontal Normalized Output (above 50%): ±5.5°
- Vertical Normalized Output (above 50%): +6° / -3.5°

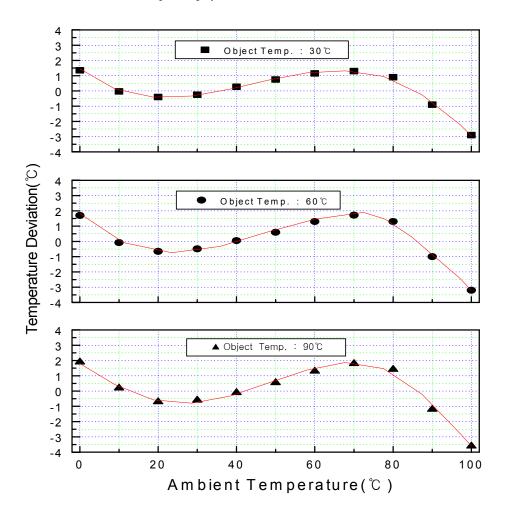
*Condition: Distance of IR Point Source to Reflector: 170 mm



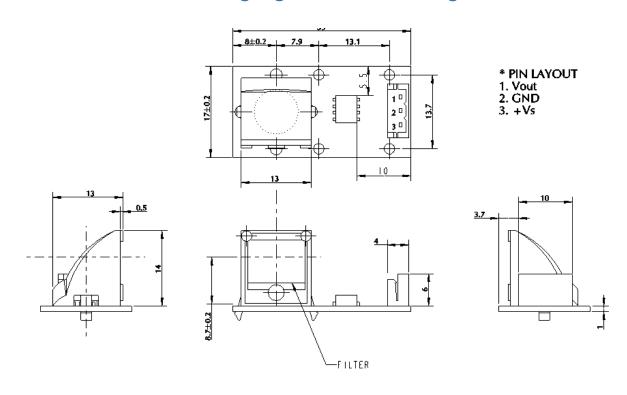
• Spot Size of Normalized Output (above 10%)



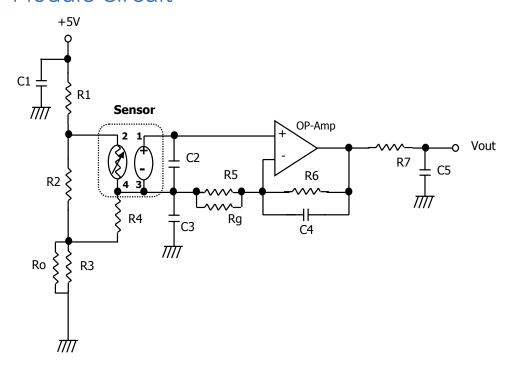
Temperature Accuracy (Typical)



Outline of Sensor Packaging and Pin Arrangement



Module Circuit





www.ge-mcs.com

920-550A