

Pyroelectric Infrared Sensors for Reflow Soldering



Parallel Quad Type Pyroelectric Infrared Sensor IRS-B340ST02 Series

SMD type Pyroelectric infrared sensors, IRS series, exhibit high sensitivity and reliable performance made possible by Murata's ceramic technology and packaging technology developed over many years.

IRS-B series is approximately 50% smaller in volume and 10% thinner than our previous surface mount model. Compared with common lead-type models, it is significantly smaller with a lower profile approximately 20% less in volume and 50% less thickness than the former.

■ Features

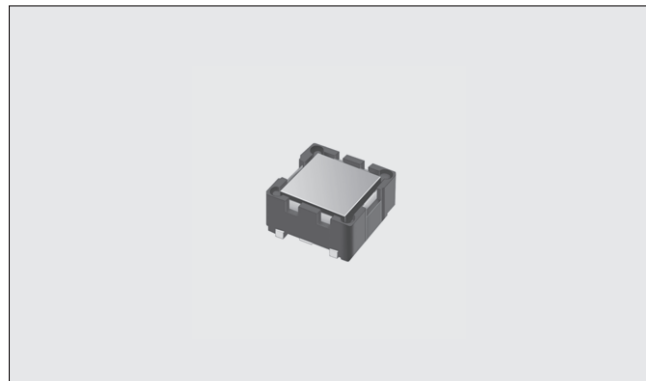
1. Reflow surface-mounting support
2. Smallest and ultra-thin throughout the trade (4.7×4.7×2.4mm)
3. High sensitivity
4. Achieves superior electromagnetic noise resistance characteristics

■ Applications

1. Human detection
2. TV
3. Air conditioning
4. Digital photo-frame
5. Personal computers
6. Automatic switches for lighting equipment
7. WEB cameras (IP cameras)
8. Automatic warm water cleaning toilet seats
9. Security devices
10. Other automatic switches
(ex. LCD monitors, Air purifiers, Ventilation fans)
11. Home electronics for Eco

■ Rating (25°C)

Part Number	IRS-B340ST02
Responsivity (500K, 1Hz, 1Hz)	3.6mV _{p-p} (Typ.)
Field of View	θ1=70° θ2=50°
Optical Filter	3μm long-pass
Electrode	—
Supply Voltage	2 to 15V
Operating Temperature	-40 to 70°C
Storage Temperature	-40 to 80°C



■ Dimensions & Circuit Diagrams

