# Pyroelectric Infrared Sensors for Reflow Soldering



# SMD-Dual Type Pyroelectric Infrared Sensor IRS-B210ST01 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 in thickness than the former.

#### ■ Features

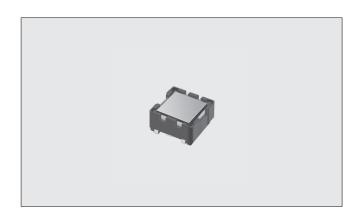
- 1. Reflow surface-mounting support
- 2. Smallest and ultra-thin throughout the trade (4.7×4.7×2.4mm)
- 3. High sensitivity
- 4. Achieves superior electromagnetic noise resistance characteristics

#### ■ 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
- Other automatic switches
  (ex. :LCD monitors, Air purifiers, Ventilation fans)
- 11. Home electronics for Eco

## ■ Rating (25°C)

Part Number	IRS-B210ST01
Responsivity (500K, 1Hz, 1Hz)	3.6mV <sub>p-p</sub> (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 85°C



### ■ Dimensions & Circuit Diagrams

