muRata INNOVATOR IN ELECTRONICS

Product Search Data Sheet

Note: If you have not downloaded this document from our official website, please note that the information provided may not be the most current.

Please download the latest datasheet of IRA-S500ST01A01 from the official website of Murata

http://www.murata.com/en-us/products/productdetail?partno=IRA-S500ST01A01

IRA-S500ST01A01

In Production Recommended RoHS REACH

Applications

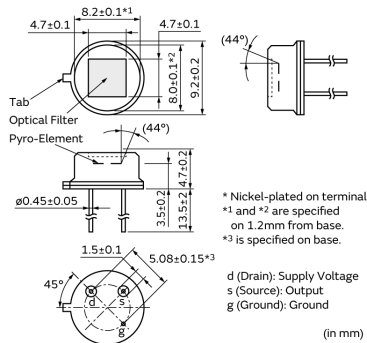| Unsuitable Applications	Please be sure to read and comply with these "Precautions for use."
Specific Applications	Consumer equipment Please refer to Our Website and specifications, etc. for information about the performance, functions, quality, management, and safety required for the above applications, and use Products after confirming the performance and reliability of the actual Product.
Recommended Applications	Intrusion detection,Security Equipment, Light,Indoor,For Ceiling,Improved RF immunity

Packaging Information

Packaging	Specifications	Standard Packing Quantity
-	Box	100

Features

Excellent Sensitivity & S/N ratio (Signal/Noise)
Excellent Quality
Excellent EMC

Appearance & Shape

8.2±0.1*¹
4.7±0.1   4.7±0.1
8.0±0.1*²
9.2±0.2

Tab
Optical Filter
Pyro-Element

(44°)

ø0.45±0.05
3.5±0.2   4.7±0.2
13.5±.2

* Nickel-plated on terminal
*¹ and *² are specified on 1.2mm from base.
*³ is specified on base.

1.5±0.1   5.08±0.15*³
45°

d (Drain): Supply Voltage
s (Source): Output
g (Ground): Ground

(in mm)

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IRA-S500ST01A01

Specifications

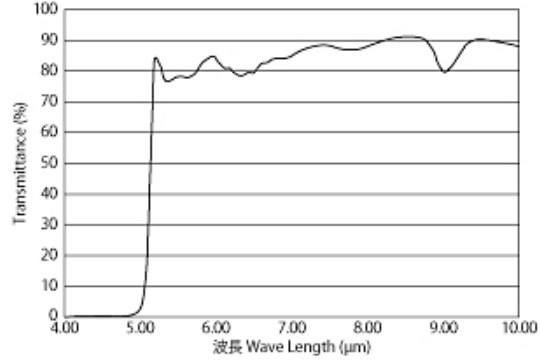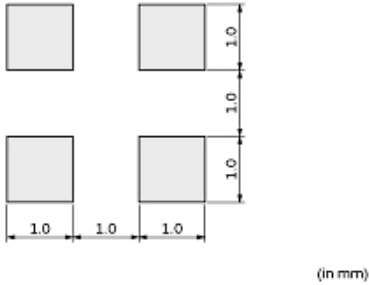| Shape	Lead
Dimensions	TO-5(φ9.2x4.7mm)
Output Type	Analog
Electrode	(1.0x1.0mm)x4
Responsivity(typ.)	3.3mV
Supply Voltage Range	2V to 15V
Field of View	X-axis/Y-axis=44deg.
Operating Temperature (°C)	-40℃ to 70℃
Storage Temperature Range	-40℃ to 85℃

Attention

1.This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
2.This datasheet has only typical specifications because there is no space for detailed specifications.
Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.
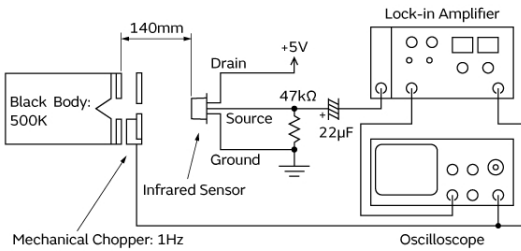
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Last updated05/03/2025

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IRA-S500ST01A01

Product Data

(in mm)

Transmittance (%)

波長 Wave Length (μm)

Pyroelectric Elements(Electrode Dimension)

Optical Filter characteristics

Black Body: 500K

140mm

Drain
+5V
47kΩ
Source
22μF
Ground
Infrared Sensor

Lock-in Amplifier

Oscilloscope

Mechanical Chopper: 1Hz

Test system of Responsivity

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