



2022-06-23

Specifications of CdTe pixel bare element

(Product type no. : P1S20404100P010)

1. Products : Schottky type CdTe pixel bare element (Standard Product)
2. General Specifications
 - 1) Material : CdTe(Cadmium Telluride)
 - 2) Dimension : 4 (± 0.05) x 4 (± 0.05) x 1 (± 0.05) [mm]
 - 3) Electrodes : Anode : In/Ti
Cathode : Pt
 - 4) Pixel pattern : Pixel size --- 600 X 600 [μm]
Pixel pitch --- 1000 X 1000 [μm]
Pixel number --- 16 (4 X 4)
3. Electrical Specifications
 - 1) Energy resolution (FWHM)

Measurement Condition : RI : 57Co(122keV) , 241Am(59.5keV)
Bias voltage = 700 [V] @ 23 \pm 3 [$^{\circ}\text{C}$]

Specifications : The Spectral pattern can be confirmed. (each RI)
 - 2) Leakage Current

Measurement Condition : Bias voltage = 10 ~ 1000 [V] @ 23 \pm 3 [$^{\circ}\text{C}$]

Specifications : Measurement only
4. Shipping form
 - The plane side of the element is put on a tape.
 - The tape is packed in a fluoroware 2" wafer case.
 - The wafer cases are packed in a metal box, which is in a carton box.
5. Storage

Storage temperature ; 0 ~ 50 $^{\circ}\text{C}$ 、 (No Condensation)
6. Submitted data
 - (1) Energy spectra for each bare element
 - (2) I-V curve for each bare element
7. Warranty

Within one year, we compensate the chips which appear to be out of the specifications.
8. Others

This product consists of Cadmium Telluride (CdTe). When decomposed, this material is harmful to human body. Do not take CdTe into human body in any form. When burned, chemically treated, or powdered, CdTe is decomposed and may be easily absorbed into human body.

Information described in this sheet is current as of June 2022.
 The specifications is subject to change without prior notice due to improvements or other reasons. Before ordering, please contact us to check the updated information.

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Standard 16ch pixel CdTe assembly

~ 16 pixel electrode pattern ~



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Parts number
P1S20404100P010

