



2026-06-29

Specifications of CdTe pixel bare element

(Product type No. : P1S20606100P010)

1. Products : Schottky type CdTe bare element with Guard Ring (Standard Product)
2. General Specifications
 - 1) Detector material : CdTe (Cadmium Telluride)
 - 2) Dimension : $6.1 (\pm 0.05) \times 6.1 (\pm 0.05) \times 1.0 (\pm 0.05)$ [mm]
 - 3) Electrodes : Anode : In/Ti
Cathode : Pt
 - 4) Electrode Pattern : Electrode Size --- 4.0×4.0 [mm]
Guard Ring (GR) Width --- 0.95 [mm]
3. Electrical Specifications
 - 1) Energy resolution (FWHM)

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

Specification : Not greater than 6.5 [keV] (included GR) (each RI)
 - 2) Leakage Current

Measurement Condition : Bias voltage = 10 to 1000 [V] @ 23 ± 3 [°C]

Specification : Measurement only
4. Shipping form
 - Each bare element is put into a paper bag (glassine paper).
 - A paper bag 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 to 50 [°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 2026. 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.

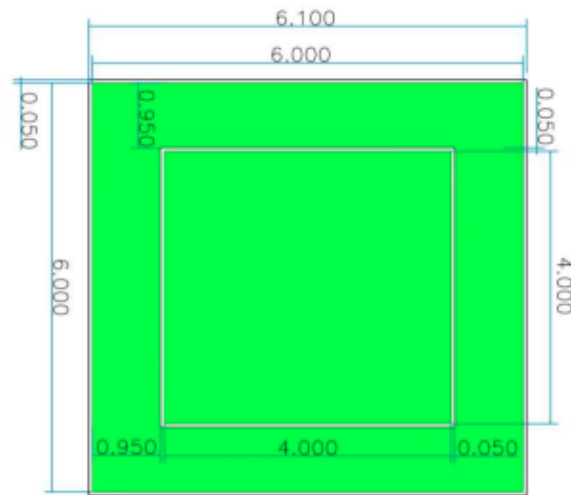
Approval (QA Div. Manager)	Create

***Standard Product Pixel CdTe Element
with GR (In Schottky type)***



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~ Pixel Electrode ~



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