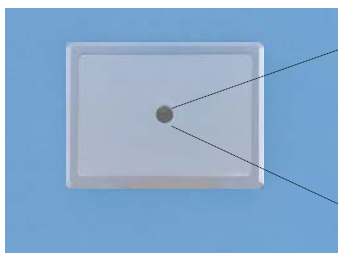


Operation on Micro-chart *JIMA RT RC-02B*

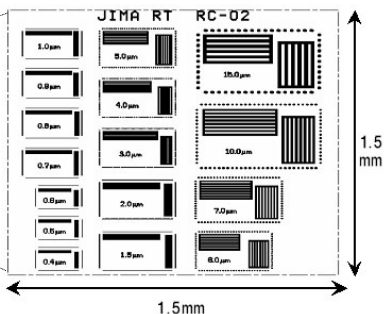
Operation Manual

It is greatly appreciated your purchasing JIMA RT RC-02B. Please read this operations manual well for proper usage and then, please preserve for future reference

Appearance



Patterns



Specifications

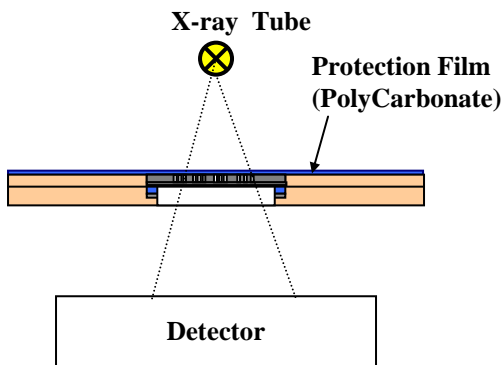
1. Whole Dimensions (WxDxT) : 40 x 30 x 5 mm (Al)
2. Chip Size (WxDxT) : 5 x 5 x 0.06 mm (Si)
3. Thickness of Absorption material (W: Tungsten) : 1.0 μm
4. Membrane Film : Thickness : 0.1 μm (including bonding layer)
5. Pattern precision : within [+/- 10%] for ≤ 2 μm Patterns
within [+/- 8%] for ≥ 3 μm Patterns

[NOTICE] All of the pattern sizes have been measured by SEM at typical points, and the data are shown in the document of certification

6. Slit : 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.5, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 10.0, 15.0 μm
(Each Slit has 7 Lines except 15 μm. 15 has only 5 lines.)

Testing Method

Please use the test sample by placing the protection-film side toward X-ray source point as shown in schematic figure at the right.



Notice of Operation

- Do not disassemble the aluminum holder at all.

*The ability of the test sample cannot be maintained.
Once disassembled, it is impossible to assemble again.*

- For storage, avoid a place of high-temperature and high-humidity.

If possible, keep it in desiccators.

- Don't touch the surface of the protective film.

If peeled off, the slit may be damaged.

- Don't physically shock the test sample.

The integrity cannot be maintained after shock.

- Please utilize this test sample to maintain or to control the capability of the X-ray system.

- It is impossible to re-calibrate or periodically check the test sample,

It is manufactured by using ultra-fine semiconductor lithography technique and assembled all into one solid piece, so it is impossible to re-calibrate. The protection film was attached after SEM-measurement, so it is impossible to re-measure after assembly.

- This test sample is expendable.

If irradiated by X-ray for a long duration, the protective film may be damaged.

NOTE: RC-02B has same chip as RC-02, but has modified aluminum base plate.