Vacuum compatible single element Si drift detector

XSDD50-01GR-ICF-SYS

The latest SDD detector uses a 4-element design, achieving high counting rates and high energy resolution. The APU504XDC offers selectable high counting rate mode and high resolution mode, enabling flexible measurements.



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SYSTEM

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Vacuum compatible single element Si drift detector

XSDD50-01GR-ICF-SYS

CL type (for low energy)

CH type (for high energy) 1 μm thick carbon No support grid Replacement with 8 μm beryllium window

165 nm thick carbon Silicon support grid(open area ratio 86%) For low energy applications



• Both windows provide vacuum sealing for the detector and exhibit excellent cooling performance.

• The transmission rate has been improved across the entire energy range compared to conventional windows.



Energy resolution (FWHM) for Manganese Ka up to 121 eV at a peaking time of 4 μs





Low-energy spectrum Gaussian lithium and oxygen Ka peaks





Applying a 25-degree angle to the detection surface Reduces the focal distance to the sample

When using a vacuum-compatible bellows drive mechanism

We also accept custom orders and prototypes. Please feel free to consult with us.

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