

Scintillation detector

JAPAN MADE

Model: XBF464025, XBF464015

DETECTOR

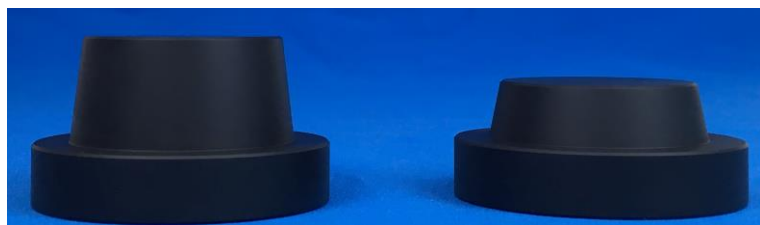
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● Overview

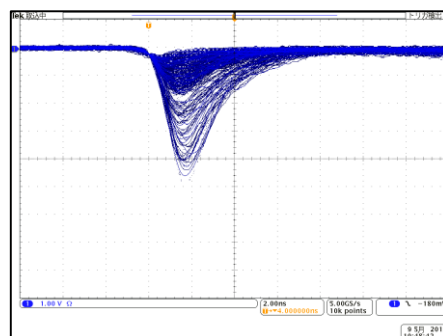
BaF₂ (barium fluoride) scintillation detectors have the characteristics of short luminescence response time and decay time in the radiation measurement field. In particular, it has been used to measure event times such as ps (picoseconds) and ns (nanoseconds). This detector uses a large BaF₂ crystal to improve detection efficiency. Ideal for applications such as positron annihilation lifetime measurement.



Appearance (Left: XBF464025, Right: XBF464015)



Crystal cover (Left: CP464025, Right: CP464015)



Screenshot of the signal

● Specifications

Crystal	BaF ₂ Scintillator, Conical
Crystal Size	XBF464025: Φ46 mm Φ40 mm × L25 mm XBF464015: Φ46 mm Φ40 mm × L15 mm
Time resolution	Typically < 185 ps
Deliquescent	No
Reflective material	Equipped
Photomultiplier tube	H3378-51 (Hamamatsu Photonics K. K.)
Voltage	Maximum Rating: -3000V
Crystal cover	Material: Aluminum (anodic oxide coating), Thickness: about 0.5 mm, Weight: 28g (XBF464025), 24g (XBF464015)
Connector	High Voltage: SHV SIG (for anode output): BNC, DY (for dynode output): BNC
Outer diameter	Φ46mm × 221mm *without connector
Weight	763g (XBF464025) 684g (XBF464015)

*Images is for illustration purpose.

*Please note that contents may change without prior notice.

Website



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