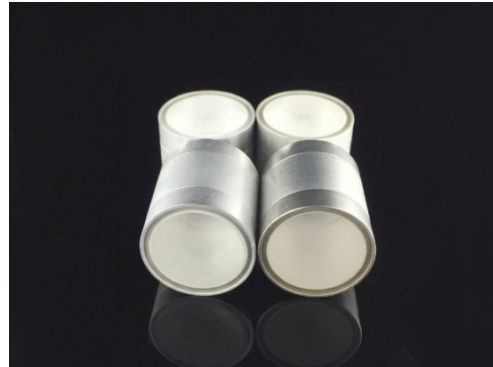


SCINTILLATION CRYSTALS

LaBr₃(Ce) Scintillation Crystal

Product Brochure & Technical Reference

Lanthanum bromide scintillation crystals for gamma spectroscopy. The hygroscopic material requires suitable encapsulation; review the window and optical readout as part of the detector design.



Reference product image. Shown geometry is illustrative.

Material reference properties / options

Property	Reference Value
Density	5.08 g/cm ³
Melting point	1116 K
Thermal expansion coefficient	8 × 10 ⁻⁶ /°C along the C-axis
Hygroscopic	Yes; hermetic encapsulation required
Peak emission wavelength	380 nm
Refractive index at peak emission	Approximately 1.9
Primary decay time	0.016 μs (16 ns)
Light yield for gamma rays	63 photons/keV

Reference values and options for selection. Confirm the material grade, geometry, test conditions and acceptance criteria for the quoted configuration.

SCINTILLATION CRYSTALS

Configuration & quotation

Define the component around your application

Application examples: Gamma-ray spectroscopy and energy measurement; Isotope identification and spectral analysis; Environmental radiation measurement instruments

LaBr₃(Ce) Crystal Properties

Property	Reference Value
Cleavage plane	<100>
Photoelectron yield relative to NaI(Tl), for gamma rays	165%

Prepare your quotation

RFQ Item	Information to Provide
Application	Measurement type, energy range, expected count rate and background constraints
Crystal geometry	Diameter or rectangular dimensions, length, tolerances and drawing
Encapsulation	Housing dimensions, optical-window requirements, clear aperture and mounting interface
Optical readout	Photosensor type, optical coupling and the available readout details
Acceptance requirements	Resolution target, test energy, operating temperature and inspection method
Quantity	Required pieces and any sample-evaluation or repeat-order requirements

Reference values and options for selection. Confirm the material grade, geometry, test conditions and acceptance criteria for the quoted configuration.

Send drawings for engineering review

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Open product and inquiry page | Hangzhou, Zhejiang, China