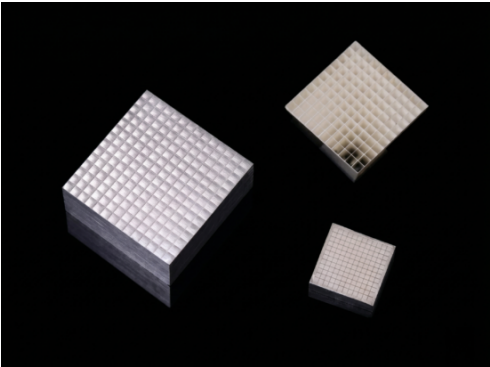


SCINTILLATOR ARRAYS

LYSO(Ce) Array

Product Brochure & Technical Reference

LYSO(Ce) arrays for PET and radiation detector development. Array geometry, surface treatment, optical separation and photosensor matching affect the assembled detector response.



Reference product image. Shown geometry is illustrative.

Material reference properties / options

Item	Typical Options
Array type	1D linear array, 2D pixelated array, offset array, multilayer array
Common pixel counts	4×4, 8×8, 16×16, 20×20, 52×52, or custom layouts
Minimum pixel size	Down to 0.2 x 0.2 mm when geometry and yield allow
Reflector materials	BaSO4, ESR, E60, TiO2, Teflon / PTFE, or custom reflector
Surface finish	Polished, roughened, painted, or application-specific finish
Readout matching	SiPM array, PSPMT, photodiode, or custom photosensor layout
Uniformity control	Pixel light output uniformity available at requested tolerance levels

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

SCINTILLATOR ARRAYS

Configuration & quotation

Define the component around your application

Application examples: PET and TOF-PET detector blocks; SPECT and gamma camera modules; Small-animal imaging and preclinical PET systems

LYSO(Ce) Array Specifications

Reflector Material	Typical Reflector + Adhesive Thickness
BaSO ₄	Greater than or equal to 0.1 mm
ESR	Approx. 0.08 mm
E60	Approx. 0.075 mm
TiO ₂	Greater than or equal to 0.1 mm

LYSO(Ce) Array Specifications

Parameter	Standard Type	Fast Decay Type
Density	7.4 g/cm ³	7.4 g/cm ³
Radiation length	1.1 cm	1.1 cm
Effective atomic number	66	66
Decay constant	40-44 ns	32-34 ns
Light yield	Approx. 32,000 photons/MeV	Approx. 29,000 photons/MeV
Refractive index	1.82	1.82
Maximum emission wavelength	420 nm	420 nm
Melting point	2050 °C	2050 °C
Hardness	5.8 Mohs	5.8 Mohs
Cleavage	No	No
Hygroscopicity	No	No

Prepare your quotation

RFQ input	Information to provide
Pixel geometry	Provide pixel cross-section, length, count, pitch, layout and finished envelope.
Optical construction	Specify reflector or separator, coupling face, surface finish and bonding requirements.
Readout / acceptance	Give the sensor model or interface and define the required test and acceptance method.
Order details	Provide quantity, drawing, intended application and delivery 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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