

EUROclin

Room Temperature High Efficiency CdTe Radiation Detector

Spectral resolution of ~5 keV with P/V > 10 & photo-peak efficiency ~ 40 % for ⁵⁷Co at 100V (measured with PR16 EURORAD's preamplifier)

Spectral resolution below 5 keV with P/V > 30 & photo-peak efficiency ~ 60 % for ⁵⁷Co at 100V (measured with PR16 EURORAD's preamplifier & Eurospectrum® enhancer)



Specifications:

Detector dimensions: 5x5x2 mm³
Detector structure: planar (Pt/CdTe/Pt)
Typical bias voltage: 100V
Energy range: 10 – 1000 keV

Spectral characteristics for ⁵⁷Co (122keV):

Detector	Energy resolution	P/V	Photo-peak efficiency
Standard planar	5.6 keV	2.5	16%
Standard planar with Eurospectrum®	5.2 keV	12	22%
EUROclin	5.1 keV	12	42 %
EUROclin with Eurospectrum®	4.5 keV	30	60 %

Operation: Room temperature

Mounting:

- Tungsten housing
- thin Carbon window
- size: φ18 mm length, without connector, 33 mm length, with BNC connector, 45 mm

Weight: 85 g

⊗Eurospectrum: electronic pulse enhancer

