



ENERTEC NUCLEAR INSTRUMENTS

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Référence

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QUALITY CONTROL

II - SPECIFICATION SHEET FOR HPGe DETECTOR TYPE

N

Type

EGC 40 R

Serial No.

1874

OPERATING VOLTAGE

-4000 V

POLARITY

Negative

DETECTION CHARACTERISTICS AT 77°K

Energy in keV		5.9	122	1332	Test	
Resolution	Guaranteed		320 eV	200 eV		
	Measured		860 eV	182 eV	750 eV	

Characteristics at 1.33 MeV		Relative efficiency	Peak/Compton ratio	FWTM FWHM ratios	FWFM FWHM ratios
Value	Guaranteed				
	Measured	36.5 %	58.5	1.88	2.50

Measurement conditions: Amplifier type : 7200
Time constant : 4 μ s
Count rate : 1000 cps

GEOMETRICAL CHARACTERISTICS OF CRYSTAL

External diameter : 55.6 mm Sensitive area : 29.3 cm²
Hole diameter : 10 mm Sensitive volume : 166 cm³
Dead layer : 0.5 μ Ge Distance from cap : 5 mm
length : 70.5 mm

CRYOSTAT Type : SBF0015XQ No. 3213

CAP Diameter: 69 mm Useful length : 250 mm
Entrance window: Al Thickness : 500 μ

ASSOCIATED ELECTRONICS Preamplifier: PSC 821CMS No. 126

REMARKS:

Checked by: P. QUININ

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