



DETECTOR SPECIFICATION AND PERFORMANCE DATA

Specifications

DETECTOR MODEL GC6021 SERIAL NUMBER 3922934
CRYOSTAT MODEL 7600SLS PREAMPLIFIER MODEL 2002CSL

The purchase specifications, and therefore the warranted performance, of this detector are as follows:
(Electric cooling may degrade performance by as much as 10%.)

Active Volume cc Relative Efficiency %
Resolution keV (FWHM) at 1.33 MeV
 keV (FWTM) at 1.33 MeV
 keV (FWHM) at
 keV (FWTM) at

Peak/Compton :1 Cryostat well diameter mm Cryostat well depth mm

Cryostat description (if special) 3.25" diameter by 7" long end cap

Physical Characteristics

Geometry Closed-end coaxial
Diameter 66.4 mm Active Volume cc
Length 70 mm Well Depth mm
Distance from window 5 mm Well Diameter mm

Electrical Characteristics

Depletion voltage (+)4000 V dc
Recommended bias voltage (+)4500 V dc
Leakage current at recommended bias 0.01 nA
Preamplifier test point voltage at recommended voltage (-)0.82 V dc
Capacitance at recommended bias ~ 28 pF

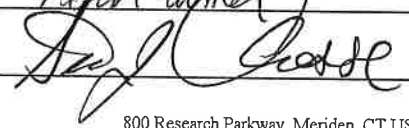
Resolution and Efficiency

With amp time constant of 4 microseconds

Isotope	⁵⁷ Co	⁶⁰ Co			
Energy (keV)	122	1332			
FWHM (keV)	1.05	1.88			
FWTM (keV)	1.94	3.48			
Peak/Compton		71.1:1			
Rel. Efficiency %		55.4			

Cool Down Time 4 hours. Cryostat Liquid Nitrogen Consumption Rate <1.8 Liters per Day.

Tested by:  Date: 11/18/97

Approved by:  Date: 11/18/97