

127BD1.6/5M-Q-X and 127BA1.6/5M-Q-X (Fiddler Probes)

Description: NaI(Tl) crystal coupled via a quartz light guide to a low background photomultiplier tube in aluminum housing. The assembly is equipped with a solid μ -metal shield around the PMT and end in a 14 pins connector. The assembly is designed for detection of low energy X-rays or gamma rays in small quantities.



Scintillation crystal	:	NaI(Tl), 127 x 1.6 mm (specially treated for X-ray response)
Drawing	:	VS-0559-40
Photomultiplier tube	:	130 mm diameter, EMI 9390
Entrance window	:	0.25 mm Beryllium (>2 keV, BD model) 0.025 mm Aluminum (> 10 keV, BA model) Extra protection of the entrance window of 20 μ kapton
Optical window	:	Low background quartz, 51 mm thick
Window protection cap	:	A black DELRIN cover (3 mm thick) protects the thin fragile window
Housing	:	Passivated Aluminum
Handle	:	Optional
Dimensions	:	Maximum diameter housing at collar 142 mm Diameter of PMT base 59 mm Length of assembly (up to connector) 240 mm
Electrical connections	:	14-pins base compatible to all available USB-based digital MCA's

Last revision:
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Performance

Energy resolutions	:	< 25% for I-129 (30 keV) < 17% for 241-Am (60 keV)
Temperature range	:	-10°C to +60°C
Max. Temperature gradient	:	20°C per hour



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