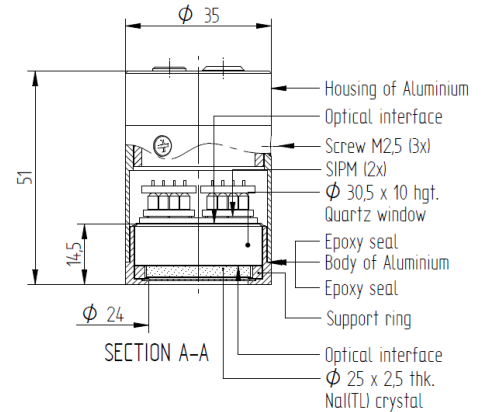
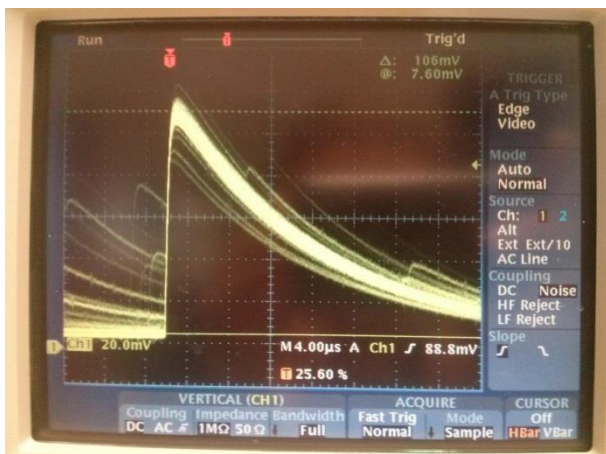


## 25BD2.5/SIP-ES-X

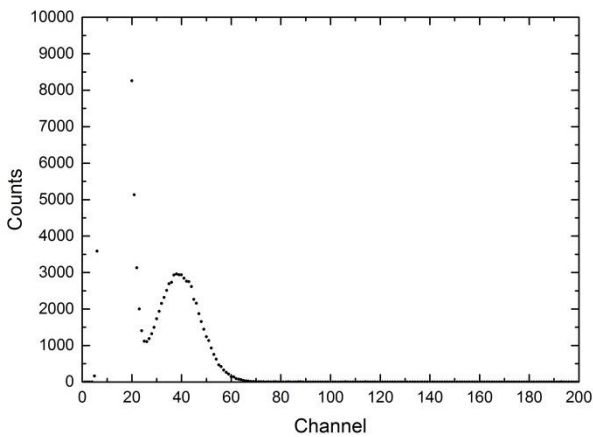


NaI(Tl) Scintillation detector read out by 2 12x12 mm<sup>2</sup> SiPM

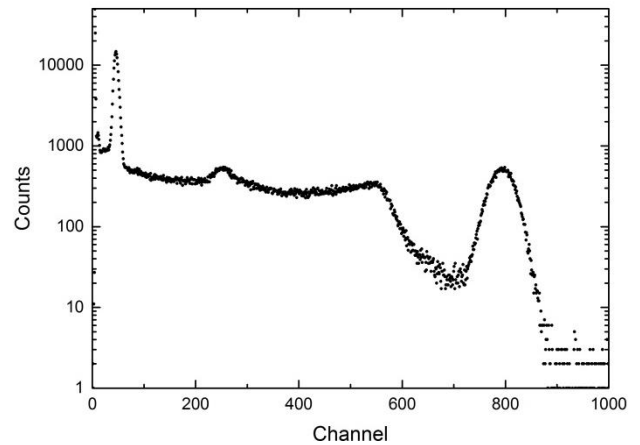
|                               |   |  |
|-------------------------------|---|--|
| <b>Scintillation material</b> | : | NaI(Tl)  |
| <b>Drawing number</b>         | : | VS-1391-10   |
| <b>Crystal read out</b>       | : | 12x12 mm <sup>2</sup> SiPM (2x)  |
| <b>Bias range</b>             | : | 25-30 V. <u>Do not exceed 30.5 V!</u>  |
| <b>Test bias voltage</b>      | : | 27.5 V   |
| <b>Electrical connections</b> | : | LEMO ERA.0S.250.CTL (Bias)<br>LEMO ERA.00.250.CTL (Signal)<br>Grounding provided via mass of connector |
| <b>Output impedance</b>       | : | 1 kΩ   |
| <b>Signal details</b>         |   |  |
| <b>Pulse fall time</b>        | : | 15 μs (1 kΩ)<br>1.4 μs (50 Ω)  |
| <b>Pulse rise time</b>        | : | 750 ns (0-100%, 1 kΩ)<br>500 ns (0-100%, 50 Ω)   |



Gain : 150 mV / MeV  
Temperature coefficient : -1 to -1.5 % per degree  
Energy resolution : < 8 % FWHM @ 662 keV  
< 15 % FWHM @ 59.5 keV  
< 55 % FWHM @ 5.9 keV  
Noise level : < 4 keV



$^{55}\text{Fe}$  (5.9 keV)



$^{137}\text{Cs}$  (662 keV)

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