

SiPM Energy Spectrum Detector

ELBC-D38H38SIPM01

1.Product introduction

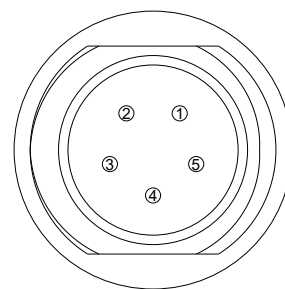
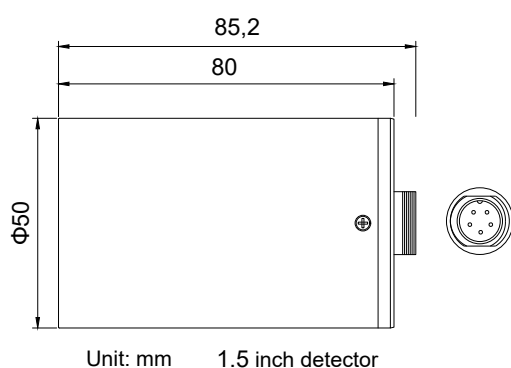


The ELBC-D38H38SIPM01 spectroscopic detector is a highly integrated detector containing a 1.5-inch $\text{LaBr}_3(\text{Ce})$, silicon photomultiplier (SiPM), summing circuit, preamplifier circuit, and temperature measurement circuit. It features excellent energy resolution, simple operation, compact size, and high reliability. It is widely used in industrial detection, radiological medicine, radiation detection, and other fields.

2.Performance parameter

Parameters	value	Unit
Scintillator type	$\text{LaBr}_3(\text{Ce})$	--
Scintillator size	$\Phi 38 \times 38$	mm
SiPM size	6×6	mm
Input voltage	+25.5~+29.5	V
Temperature measuring range	-40~+150	
Output signal pole type	Positive polarity	/
Energy resolution(^{137}Cs)	$\leq 3.5\%$	--
Working temperature and humidity	+5~+45	

3.External dimensions diagram



● Interface Definition

① Ground	② Power supply (+25.5V~+29.5V)
③ Signal output	④ Signal ground
⑤ Temperature linear output (+0.1V~+2V) / (-40 ~150)	