

Estimation of ECAL Cost

苏州晶特

尺寸	2.5*2.5*2cm	2.5*2.5*4cm	2.5*2.5*8cm	2.5*2.5*12cm	2.5*2.5*16cm	2.5*2.5*20cm
价格/块	3750	7500	14000	21000	40000	50000
价格/cc	300	300	300	280	400	400
通道数	9702	4851	2646	1764	1323	882
晶体	36382500	36382500	37044000	37044000	52920000	44100000
读出3000	29106000	14553000	7938000	5292000	3969000	2646000
读出1000	9702000	4851000	2646000	1764000	1323000	882000
读出500	4851000	2425500	1323000	882000	661500	441000
总价 (读出3000)	65488500	50935500	44982000	42336000	56889000	46746000
总价 (读出1000)	46084500	41233500	39690000	38808000	54243000	44982000
总价 (读出500)	41233500	38808000	38367000	37926000	53581500	44541000

尺寸	1*1*8cm	2*2*8cm	3*3*8cm	4*4*8cm	5*5*8cm
价格/块	2240	8960	25200	44800	70000
价格/cc	280	280	350	350	350
通道数	16624	4056	1734	1014	600
晶体	37237760	36341760	43696800	45427200	42000000
读出3000	49872000	12168000	5202000	3042000	1800000
总价	87109760	48509760	48898800	48469200	43800000

尺寸	2.5*2.5*2cm	2.5*2.5*4cm	2.5*2.5*8cm	2.5*2.5*12cm	2.5*2.5*16cm
价格/块	3700	7400	14000	21500	42000
价格/cc	296	296	280	287	420
通道数	9702	4851	2646	1764	1323
晶体	35897400	35897400	37044000	37926000	55566000
读出3000	29106000	14553000	7938000	5292000	3969000
总价	65003400	50450400	44982000	43218000	59535000

尺寸	1*1*8cm	2*2*8cm	3*3*8cm	4*4*8cm	5*5*8cm
价格/块	2200	8800	24000	45000	72000
价格/cc	275	275	333	352	360
通道数	16624	4056	1734	1014	600
晶体	36572800	35692800	41616000	45630000	43200000
读出3000	49872000	12168000	5202000	3042000	1800000
总价	86444800	47860800	46818000	48672000	45000000

- Crystal size with $x \leq 2.5\text{cm}$, $z \leq 12\text{cm}$ has a relatively lower unit cost (~290/cc)
- 2.5*2.5*12/2*2*12cm is a better economical choice
- 5*5*8/5*5*12cm is also acceptable
- Readout cost still need to be investigated

中电科26所
(w/ ESR)