

Photomultiplier Tube

Model: OPR-PMT2041

Features

- High Quantum Efficiency
- Fast Response
- Low Noise

Applications

- High Energy Physics

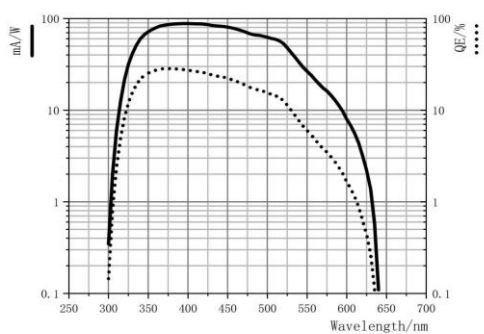


Technical Specification

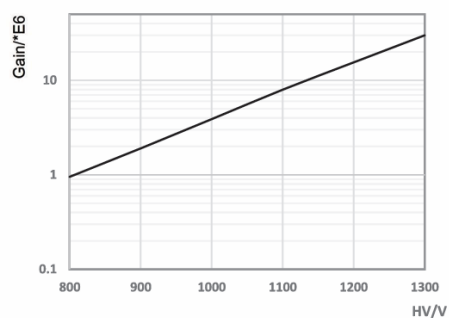
Window material		Borosilicate glass			
Photocathode material		Bialkali			
Dynode structure		Circular and Linear Focused			
		Min.	Typ.	Max.	Unit.
Cathode parameters	Spectral response range	290-650			nm
	Quantum efficiency @410nm	25	28		%
	Top detection efficiency	22	24		%
	Top collection efficiency		90		%
Anode parameters	Supply voltage		1050	1350	V
	Gain		5×10^6		--
	Dark count rate@0.2pe at room temperature			1000	Hz
	Charge resolution		40		%
	Single PE charge spectrum peak/valley	2	2.5		--
Time response	Anode pulse rise time		2.7		ns
	Transit time spread (FWHM)		2.5	3	ns
	Pre pulsing		0.1		%

	Later pulsing		3		%
	After pulsing		8		%
Operating ambient temperature		-30~+50			°C
Storage temperature		-50~+50			°C

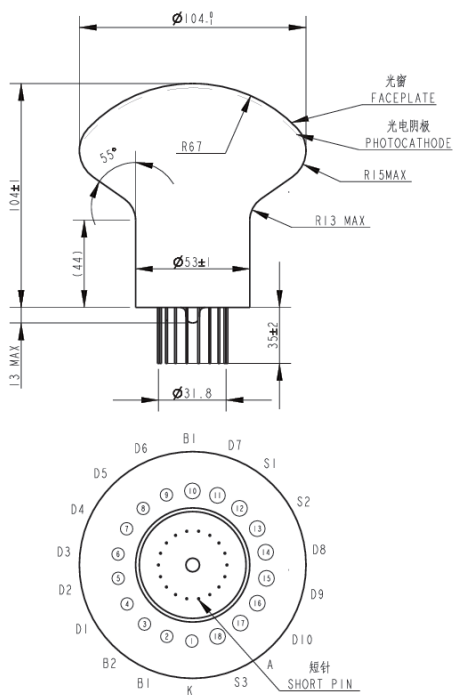
Typical spectral response curve



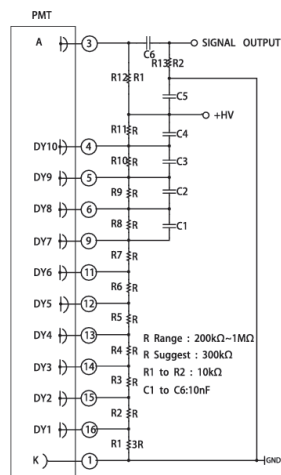
Typical gain curve



PMT structure



PMT voltage distribution ratio



电极	K	Dy1	Dy2	Dy3	Dy4	Dy5	Dy6	Dy7	Dy8	Dy9	Dy10	A
分压比	3	1	1	1	1	1	1	1	1	1	1	1

K: 阴极; Dy: 打拿极; A: 阳极
K: Cathode ; Dy: Dynode; A: Anode