

Photomultiplier Tube

Model: OPR-PMT2013-B

Features

- Fast Response
- Low Noise

Applications

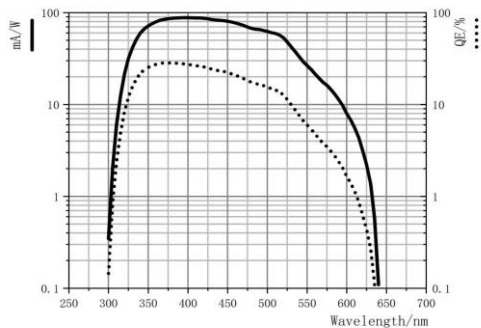
- Scintillation Counting
- High Energy Physics



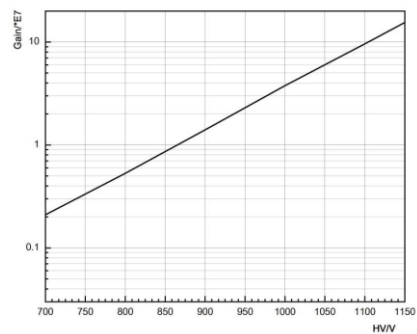
Technical Specification

Window material		Borosilicate glass			
Photocathode material		Bialkali			
Dynode structure		Box and linear focused			
		Min.	Typ.	Max.	Unit.
Cathode parameters	Cathode effective diameter	25			mm
	Spectral response range	290-650			nm
	Quantum efficiency peak wavelength		380		nm
	Luminous sensitivity		80		$\mu\text{A}/\text{lm}$
	Blue sensitivity	9	11		$\mu\text{A}/\text{lmf}$
Anode parameters	Anode blue sensitivity		30		A/lm
	Supply voltage			1150	V
	Gain		7×10^6		--
	Dark count rate			300	Hz
	Anode dark current		2	10	nA
Time response	Rise time		1.9		ns
	TTS		3		ns
Operating ambient temperature		-30~+50			$^{\circ}\text{C}$
Storage temperature		-50~+50			$^{\circ}\text{C}$

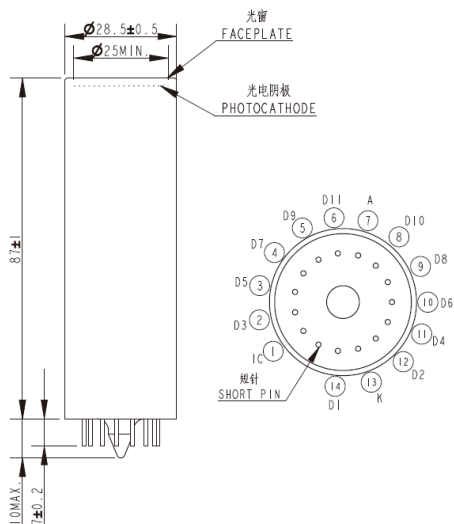
Typical spectral response curve



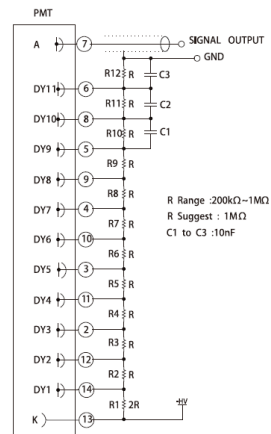
Typical gain curve



PMT structure



PMT voltage distribution ratio



电极	K	Dy1	Dy2	Dy3	Dy4	Dy5	Dy6	Dy7	Dy8	Dy9	Dy10	Dy11	A
分压比	2	1	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