

Photomultiplier Tube

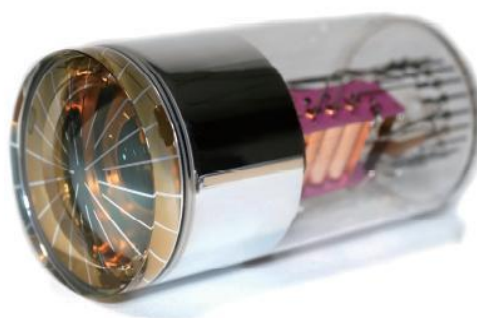
Model: OPR-PMT2021

Features

- Fast Response
- High Pulse Linearity

Applications

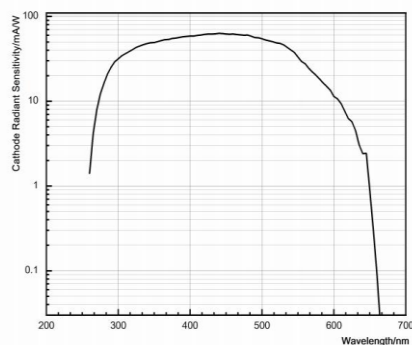
- High Energy Physics



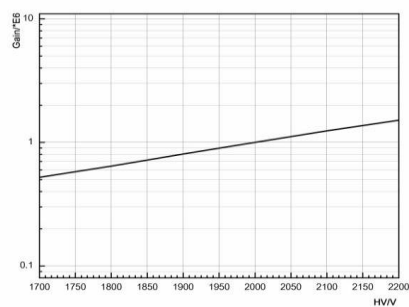
Technical Specification

Window material		Borosilicate glass			
Photocathode material		Bialkali			
Dynode structure		Linear Focused			
		Min.	Typ.	Max.	Unit.
Cathode parameters	Cathode effective diameter	60			mm
	Spectral response range	290-650			nm
	Quantum efficiency		18		%
	Luminous sensitivity		60		μA/lm
	Blue sensitivity	8	9		μA/lmf
Anode parameters	Anode sensitivity		30		A/lm
	Supply voltage	1500	1800	3000	V
	Gain		5×10^5		--
	Anode Dark current		5	10	nA
	Maximum pulse linear current@10ns time width@10%linear deviation		300		mA
	Maximum pulse linear current@2μs time width@10%linear deviation		200		mA
Time response	Rise time		1.5		ns

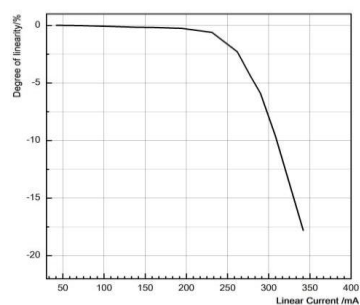
Typical spectral response curve



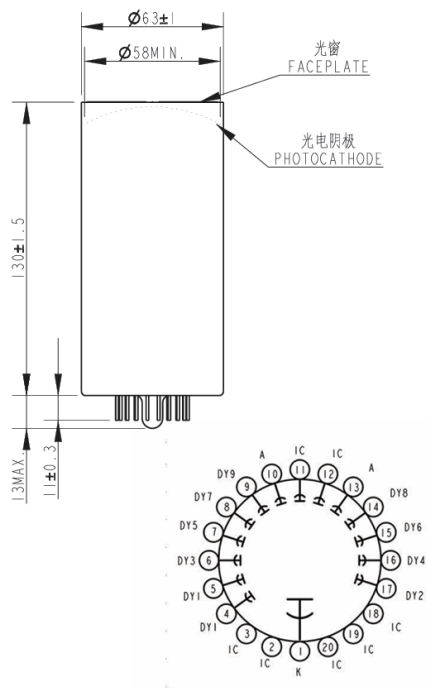
Typical gain curve



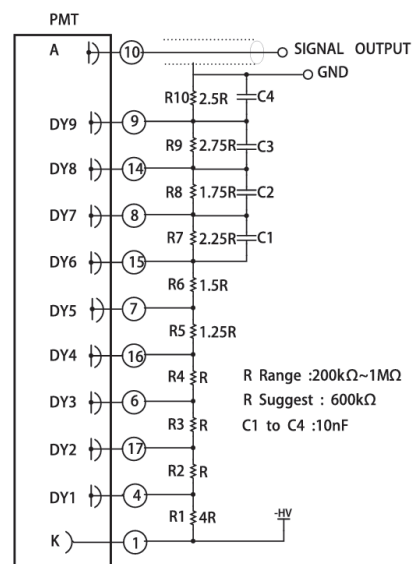
Typical linear current characteristics



PMT structure



PMT voltage distribution ratio



电极	K	Dy1	Dy2	Dy3	Dy4	Dy5	Dy6	Dy7	Dy8	Dy9	A
分压比	4	1	1	1	1.25	1.5	2.25	1.75	2.75	2.5	

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