

PMT for Scintillation Counting and Positron CT 19 mm (3/4 Inch) Diameter, 87 mm Length, 11-stage, Head-on Type

SPECIFICATIONS

GENERAL

Parameter		Description/Value	Unit
Spectral Response		300 to 650	nm
Wavelength of Maximum Response		420	nm
Photocathode	Material	Bialkali	—
	Minimum Effective Area	15	mm dia.
Window Material		Borosilicate glass	—
Dynode	Structure	Linear focused	—
	Material	Bialkali	—
	Number of Stages	11	—
Ambient Temperature		- 30 to + 100	°C

CHARACTERISTICS(at 25°C)

Parameter		Min.	Typ.	Max.	Unit
Cathode Sensitivity	Luminous(2856K)	30	65	—	μ A/lm
	Blue(CS-5-58 filter)	9	16	—	μ A/lm
Anode Sensitivity and Dark Current	Sensitivity	100			A/lm
	Voltage	—	810	1250	V
	Dark Current	—	0.1	8	nA
High Temp. Plateau		—	—	—	V
Time Response	Anode Pulse Rise Time	—	2	—	ns
	Electron Transit Time	—	20	—	ns

NOTE: Characteristics are measured with the voltage distribution ratio shown below

VOLTAGE DISTRIBUTION RATIO AND SUPPLY VOLTAGE

Electrodes	K	Dy1	Dy2	Dy3	Dy4	Dy5	Dy6	Dy7	Dy8	Dy9	Dy10	Dy11	A
Ratio	1	1	1	1	1	1	1	1	1	1	1	1	1

Supply Voltage:1000Vdc, K:Cathode, Dy:Dynode, A:Anode

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PHOTOMULTIPLIER TUBE GDB20

Figure 1: Typical Spectral Response

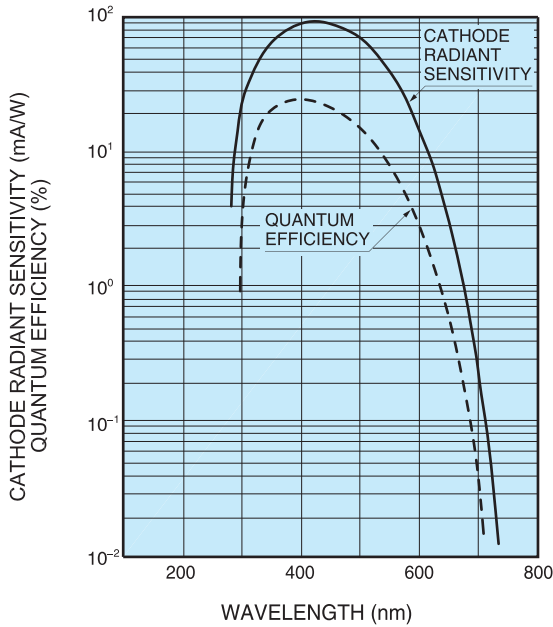


Figure 2: Typical Gain

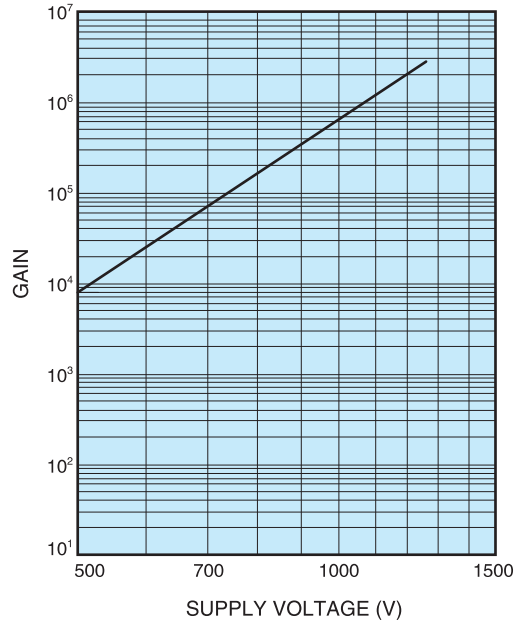
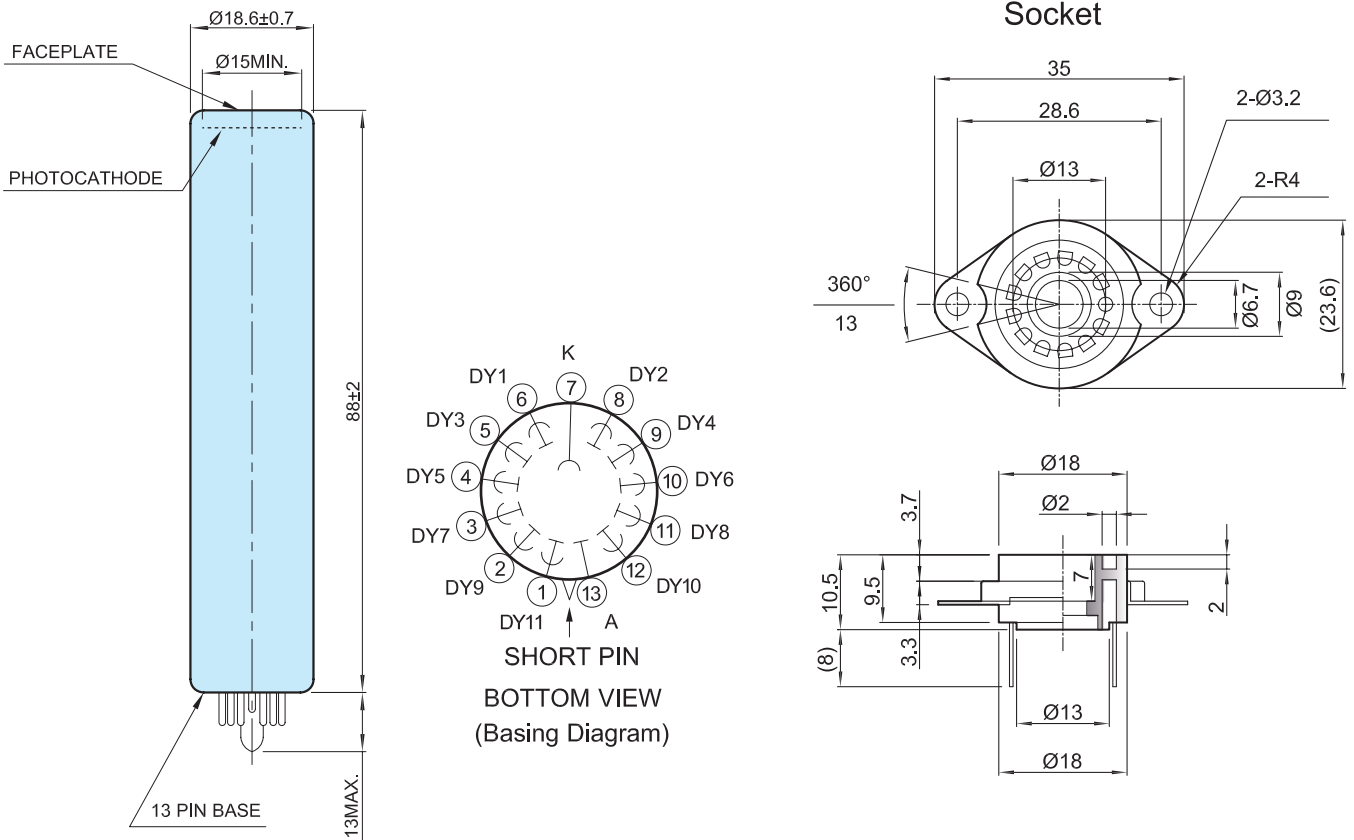


Figure 3: Dimensional Outline and Basing Diagram (Unit: mm)



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