BEIJING ENERGY

PHOTOMULTIPLIER TUBE GDB45

PMT for Scintillation Counting and Positron CT
52 mm (2 Inch) Diameter, 113 mm Length, 10-stage, Head-on Type

SPECIFICATIONS

GENERAL

Parameter		Description/Value	Unit
Spectral Response		300 to 650	nm
Wavelength of Maximum Response		400	nm
Photocathode	Material	Bialkali	—
	Minimum Effective Area	44	mm dia.
Window Material		Borosilicate glass	—
Dynode	Structure	Box and grid	—
	Material	Bialkali	—
	Number of Stages	10	—
Ambient Temperature		−30 to +100	℃

CHARACTERISTICS(at 25℃)

Parameter		Min.	Typ.	Max.	Unit
Cathode Sensitivity	Luminous(2856K)	—	70	—	μ A/lm
	Blue(CS–5–58 filter)	12	14	—	μ A/lm
Anode Sensitivity and Dark Current	Sensitivity		50		A/lm
	Voltage	—	1200	1600	V
	Dark Current	—	2	20	nA
High Temp. Plateau		—	—	—	V
Time Response	Anode Pulse Rise Time	—	13	—	ns
	Electron Transit Time	—	70	—	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	A
Ratio	1	1	1	1	1	1	1	1	1	1	1	

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

Subject to local technical requirements and regulations, availability of products included in this promotional material may vary .Please consult with our sales office.

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Figure 1: Typical Spectral Response

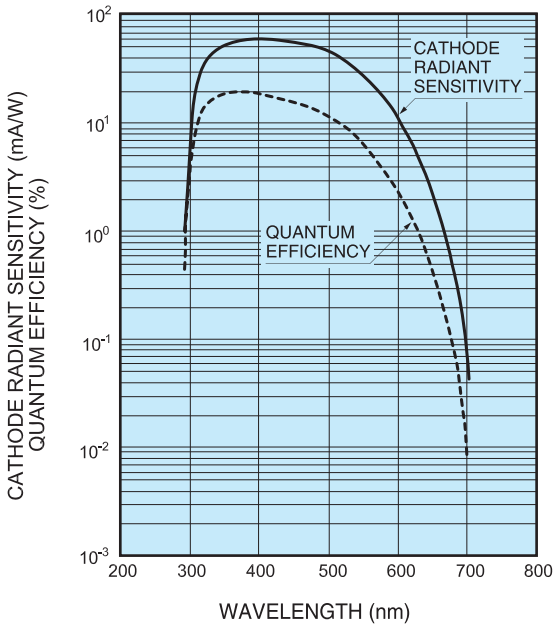


Figure 2: Typical Gain

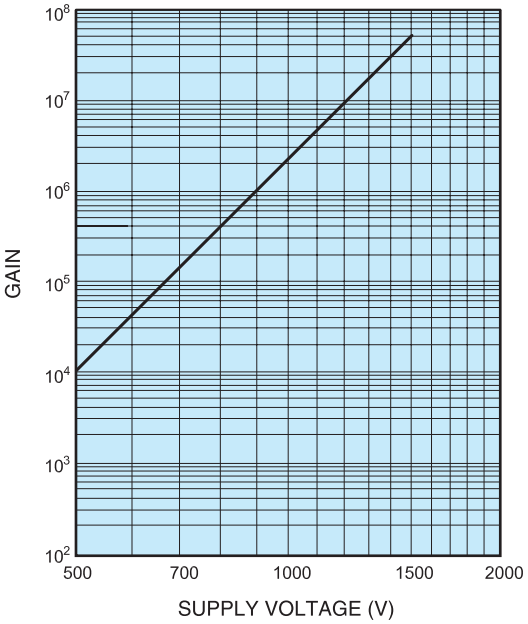
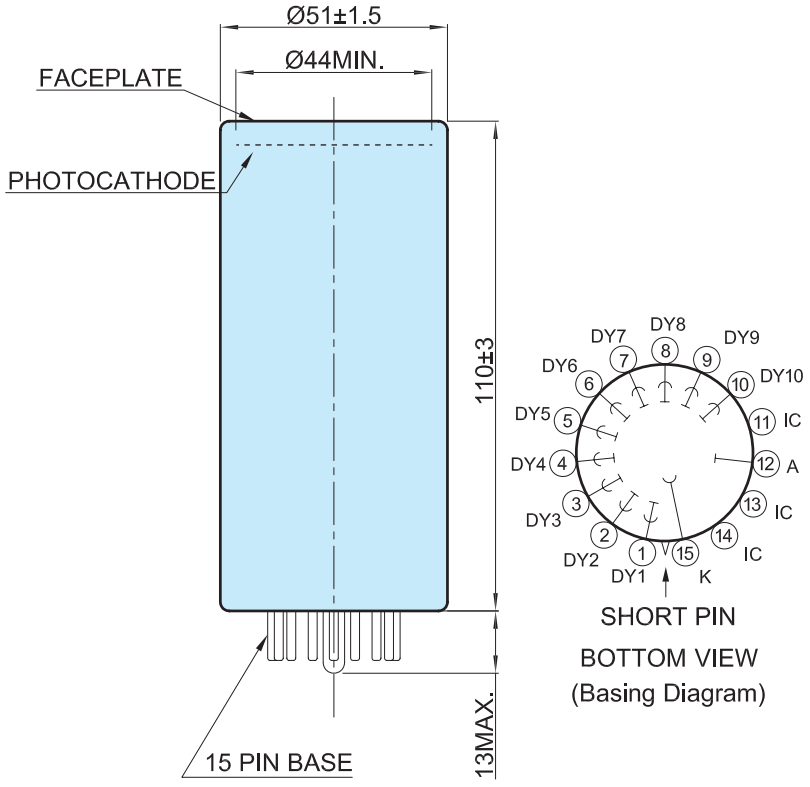
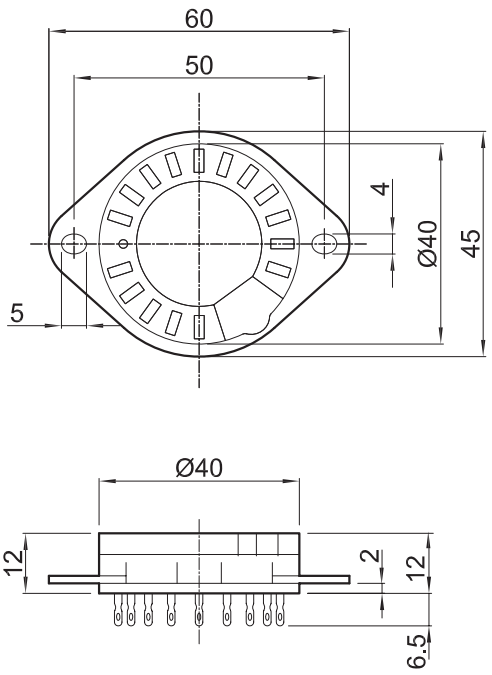


Figure 3: Dimensional Outline and Basing Diagram (Unit: mm)



Socket



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