BEIJING ENERGY

PHOTOMULTIPLIER TUBE GDB40-02

Ruggedized, High Temperature (150℃) PMT for Oil Well Logging (MWD)
40 mm (1-4/5 Inch) Diameter, 113 mm Length, 11-stage, Head-on Type

SPECIFICATIONS

GENERAL

Parameter		Description/Value	Unit
Spectral Response		300 to 600	nm
Wavelength of Maximum Response		400	nm
Photocathode	Material	High temp. Bialkali	—
	Minimum Effective Area	34	mm dia.
Window Material		Borosilicate glass	—
Dynode	Structure	Box and grid	—
	Material	Beryllium copper	—
	Number of Stages	11	—
Ambient Temperature		−80 to +150	℃

CHARACTERISTICS(at 25℃)

Parameter		Min.	Typ.	Max.	Unit
Cathode Sensitivity	Luminous(2856K)	30	50	—	μA/lm
	Blue(CS−5−58 filter)	9	11	—	μA/lm
Anode Sensitivity and Dark Current	Sensitivity		30		A/lm
	Voltage	—	1600	1800	V
	Dark Current	—	1	3	nA
High Temp. Plateau		—	1650	—	V
Time Response	Anode Pulse Rise Time	—	15	—	ns
	Electron Transit Time	—	60	—	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	

Supply Voltage:1500Vdc, 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

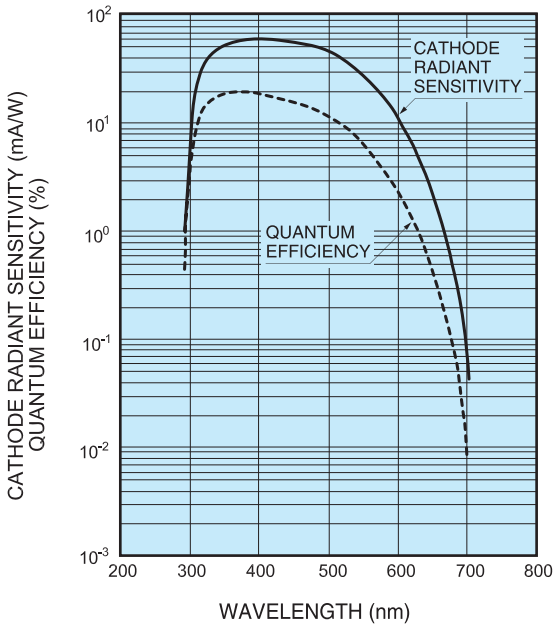


Figure 2: Typical Gain

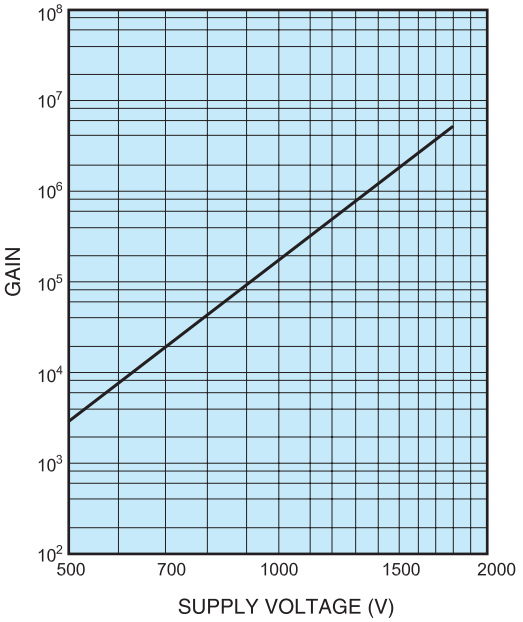
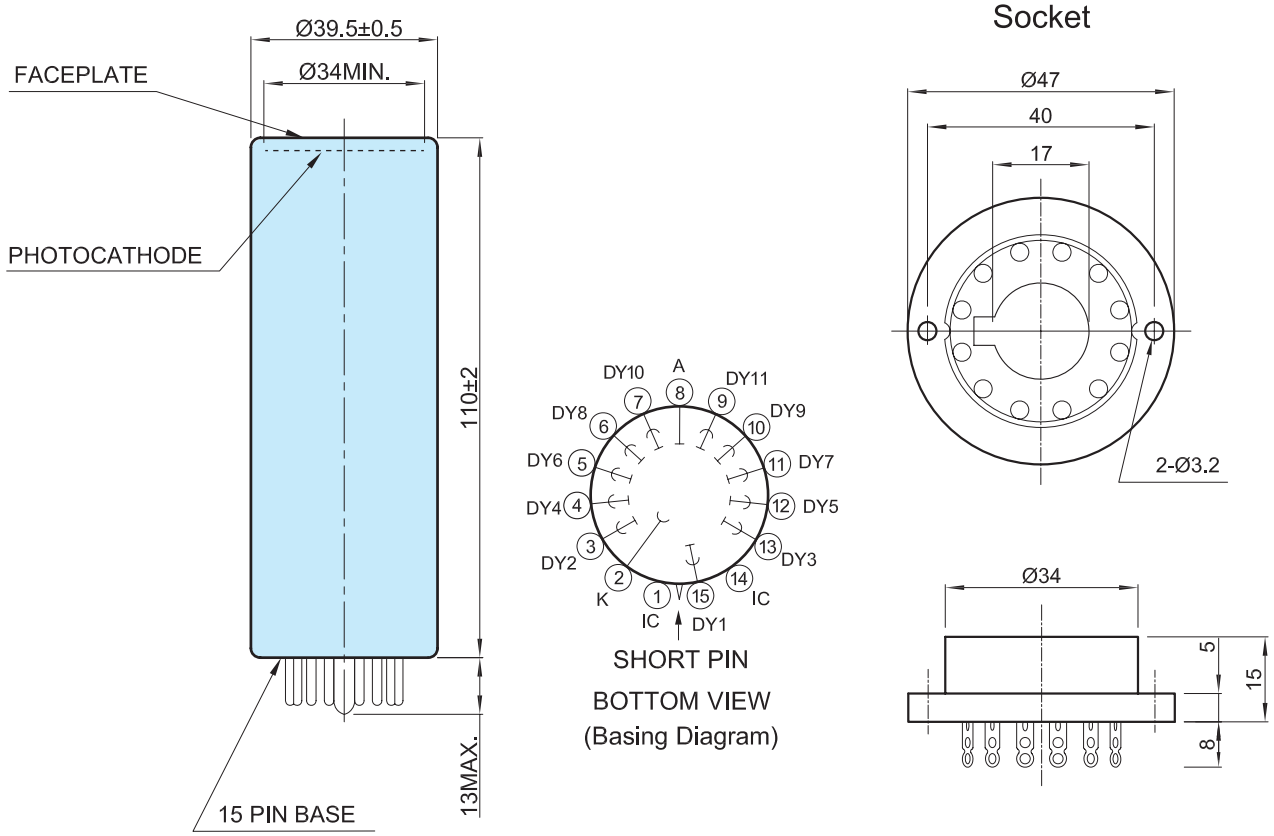


Figure 3: Dimensional Outline and Basing Diagram (Unit: mm)



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