

**28 mm (1-1/8 Inch) Diameter, 9-stage, Bialkali Photocathode, Side-on Type
High Gain and Low Dark Current
185 nm to 650 nm Spectral Response**

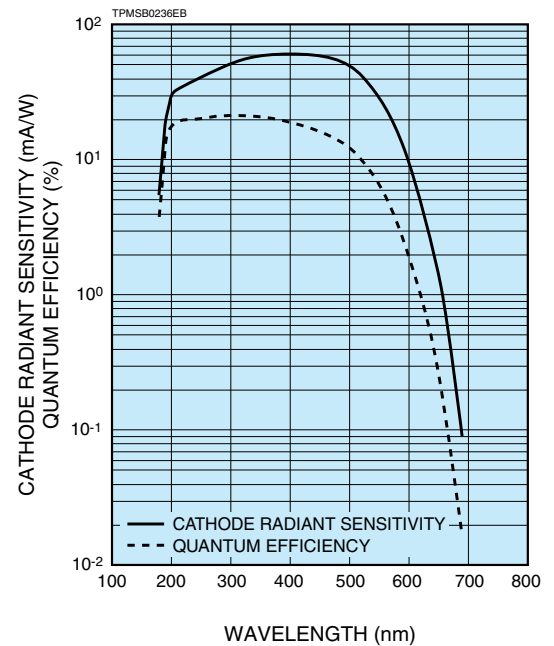
SPECIFICATIONS

GENERAL

Parameter	Description/Value	Unit
Spectral Response	185 to 650	nm
Wavelength of Maximum Response	400	nm
Photocathode	Material	Bialkali
	Minimum Effective Area	8 × 24
Window Material	UV glass	—
Dynode	Structure	Circular-cage
	Number of Stages	9
Direct Interelectrode Capacitances	Anode to Last Dynode	4
	Anode to All Other Electrodes	6
Base	11-pin base JEDEC No. B11-88	—
Weight	Approx. 45	g
Operating Ambient Temperature	-30 to +50	°C
Storage Temperature	-30 to +50	°C
Suitable Socket	E678-11A (Sold Separately)	—
Suitable Socket Assembly	E717-63 (Sold Separately)	—



Figure 1: Typical Spectral Response



MAXIMUM RATINGS (Absolute Maximum Values)

Parameter	Value	Unit
Supply	Between Anode and Cathode	1250
Voltage	Between Anode and Last Dynode	250
Average Anode Current		0.1

CHARACTERISTICS (at 25 °C)

Parameter	Min.	Typ.	Max.	Unit
Cathode Sensitivity	Luminous (2856 K)	40	60	—
	Radiant at 400 nm	—	60	—
	Quantum Efficiency at 400 nm	—	18.6	—
	Blue Sensitivity Index (CS 5-58)	—	7.1	—
Anode Sensitivity	Luminous (2856 K)	200	600	2000
	Radiant at 400 nm	—	6 × 10 ⁵	—
Gain	—	1.0 × 10 ⁷	—	—
Anode Dark Current (After 30 min Storage in Darkness)	—	1	10	nA
Time Response	Anode Pulse Rise Time	—	2.2	ns
	Electron Transit Time	—	22	ns

VOLTAGE DISTRIBUTION RATIO AND SUPPLY VOLTAGE

Electrodes	K	Dy1	Dy2	Dy3	Dy4	Dy5	Dy6	Dy7	Dy8	Dy9	P
Ratio	1	1	1	1	1	1	1	1	1	1	1

Supply Voltage: 1000 V, K: Cathode, Dy: Dynode, P: Anode

PHOTOMULTIPLIER TUBE R11568

Figure 2: Typical Gain Characteristics

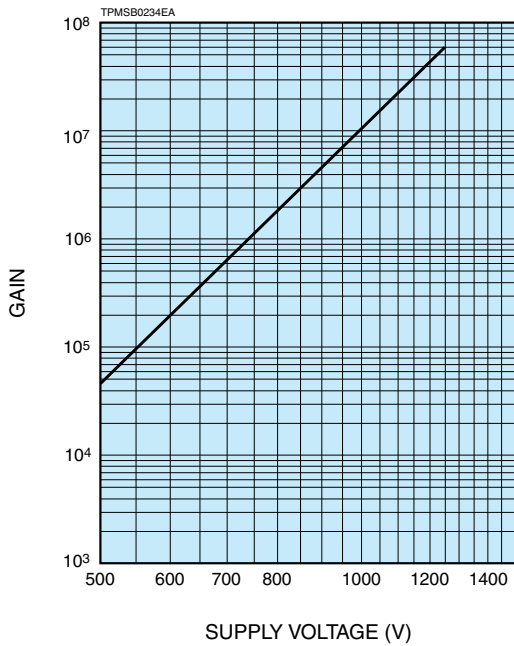


Figure 3: Dimensional Outline and Basing Diagram (Unit: mm)

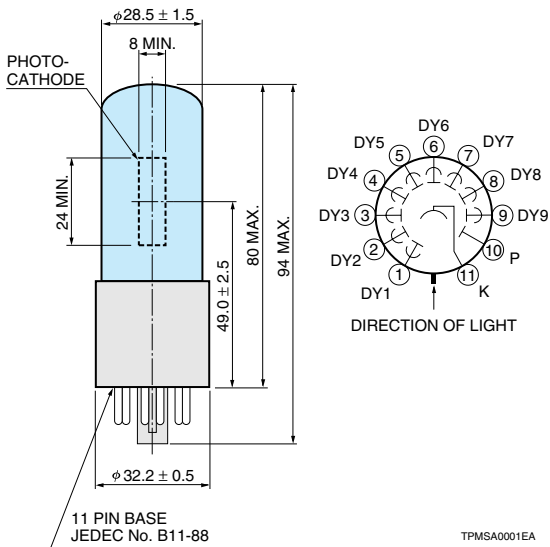
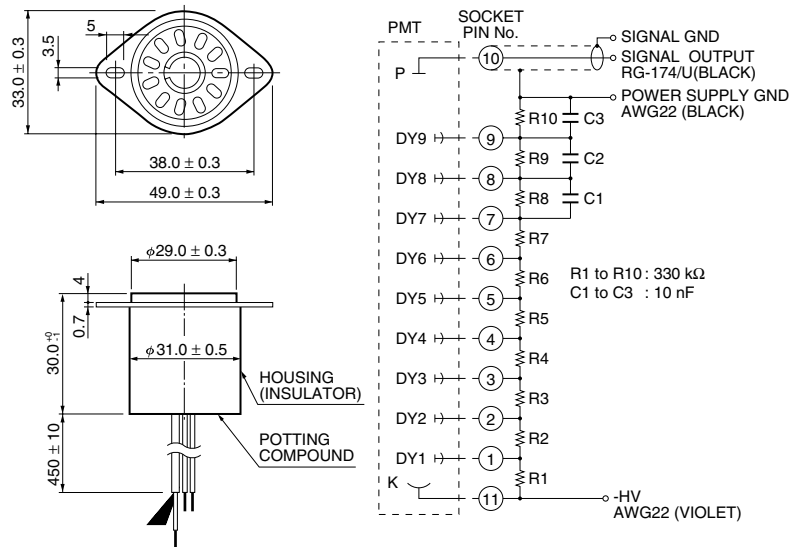


Figure 4: Accessories (Unit: mm) **Sold Separately**

D Type Socket Assembly E717-63



* Hamamatsu also provides C4900 series compact high voltage power supplies and C12597-01, C8991 DP type socket assemblies which incorporate a DC to DC converter type high voltage power supply.

Warning—Personal Safety Hazards
Electrical Shock—Operating voltages applied to this device present a shock hazard.

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