

HAMAMATSU

PHOTOMULTIPLIER TUBE R11568

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

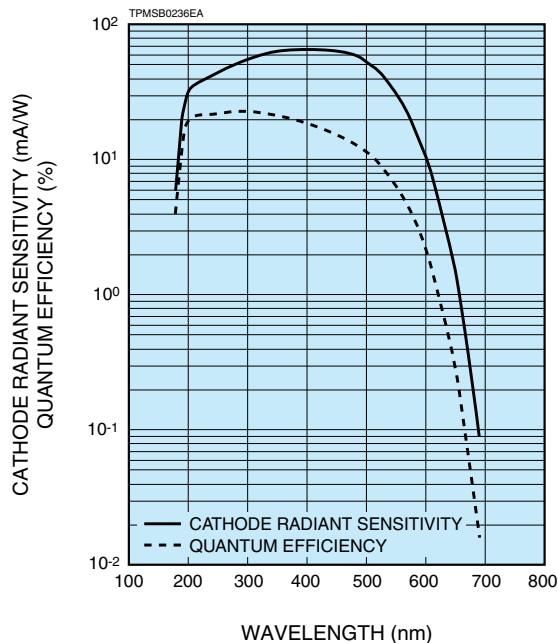
SPECIFICATIONS

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	mm
Window Material		UV glass	—
Dynode	Structure	Circular-cage	—
	Number of Stages	9	—
Direct Interelectrode Capacitances	Anode to Last Dynode	4	pF
	Anode to All Other Electrodes	6	pF
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 Voltage	Between Anode and Cathode	1250	V
	Between Anode and Last Dynode	250	V
Average Anode Current		0.1	mA

CHARACTERISTICS (at 25 °C)

Parameter		Min.	Typ.	Max.	Unit
Cathode Sensitivity	Luminous (2856 K)	40	60	—	μA/lm
	Radiant at 400 nm	—	60	—	mA/W
	Quantum Efficiency at 400 nm	—	18.6	—	%
	Blue Sensitivity Index (CS 5-58)	—	7.1	—	—
Anode Sensitivity	Luminous (2856 K)	200	600	2000	A/lm
	Radiant at 400 nm	—	6 × 10 ⁵	—	A/W
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

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Figure 2: Typical Gain Characteristics

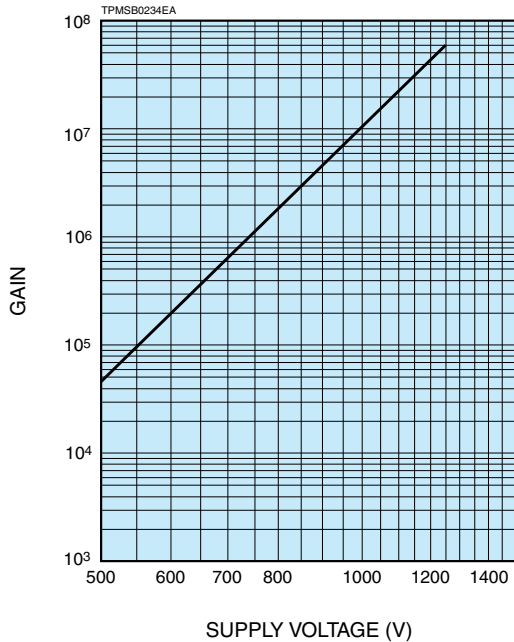


Figure 3: Dimensional Outline and Basing Diagram (Unit: mm)

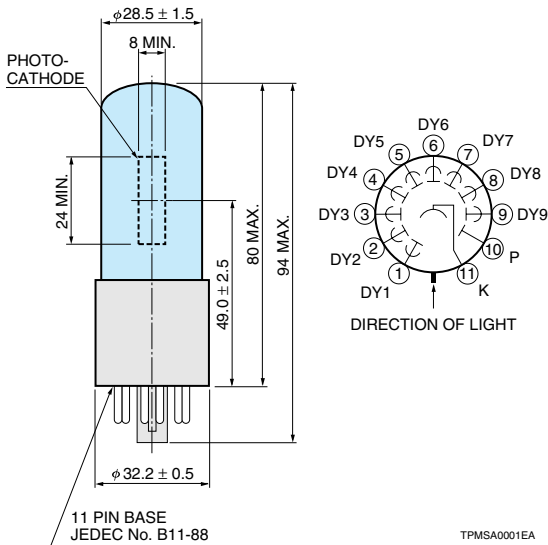
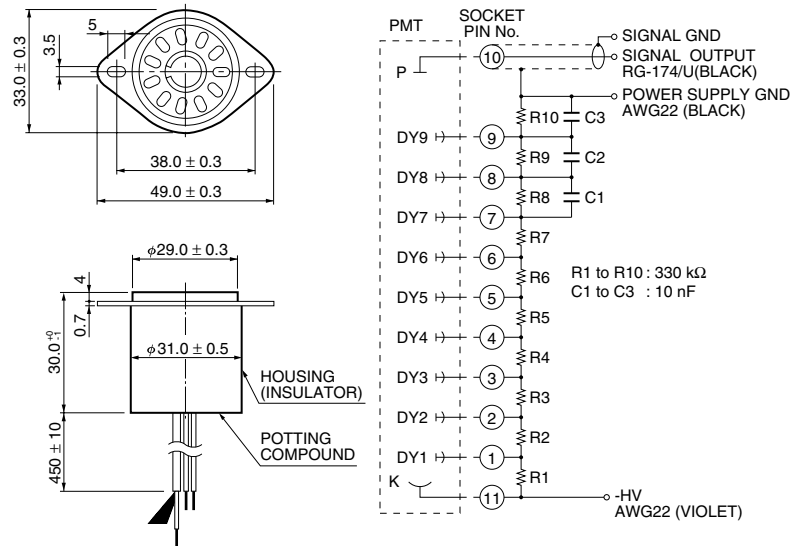


Figure 4: Accessories (Unit: mm) Sold Separately

D Type Socket Assembly E717-63



* Hamamatsu also provides C4900 series compact high voltage power supplies and C6270, 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.

HAMAMATSU

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