

10mm × 10mm Square Envelope, Head-On Type 8-Stage, Bialkali Photocathode

GENERAL

Parameter		Description/Value	Unit
Spectral Response		300 to 650	nm
Wavelength of Maximum Response		420	nm
Photocathode	Material	Bialkali	—
	Minimum Useful Area	8 × 8	mm
Window Material		Borosilicate glass	—
Dynode	Structure	Linear focused	—
	Number of Stages	8	—
Base		11-pin glass base	—
Weight		Approx. 4.5	g
Suitable Socket		E678-11N (supplied)	—

MAXIMUM RATINGS (Absolute Maximum Values)

Parameter		Value	Unit
Supply Voltage	Between Anode and Cathode	1500	Vdc
	Between Anode and Last Dynode	250	Vdc
Average Anode Current		0.03	mA
Ambient Temperature		-80 to +50	°C

CHARACTERISTICS (at 25°C)

Parameter		Min.	Typ.	Max.	Unit
Cathode Sensitivity	Luminous (2856K)	60	95	—	μA/lm
	Radiant at 420nm	—	76	—	mA/W
	Blue (CS 5-58 filter)	—	9.5	—	μA/lm-b
Anode Sensitivity	Luminous (2856K)	30	100	—	A/lm
Gain		—	1.1 × 10 ⁶	—	—
Anode Dark Current (after 30min. storage in darkness)		—	1	50	nA
Time Response	Anode Pulse Rise Time	—	0.9	—	ns
	Electron Transit Time	—	9	—	ns

VOLTAGE DISTRIBUTION RATIO AND SUPPLY VOLTAGE

Electrodes	K	Dy1	Dy2	Dy3	Dy4	Dy5	Dy6	Dy7	Dy8	P
Ratio	2	2	1	1	1	1	1	1	1	1

Supply Voltage: 1250Vdc, K: Cathode, Dy: Dynode, P: Anode

PHOTOMULTIPLIER TUBE R2248

Figure 1: Typical Spectral Response

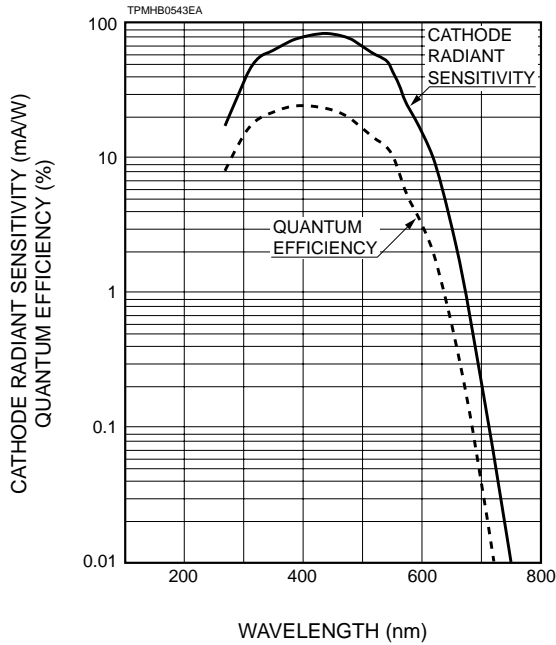


Figure 2: Typical Gain Characteristics

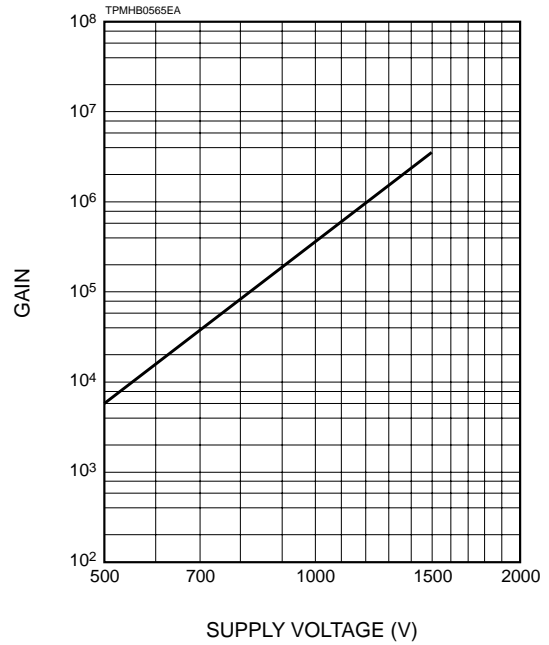
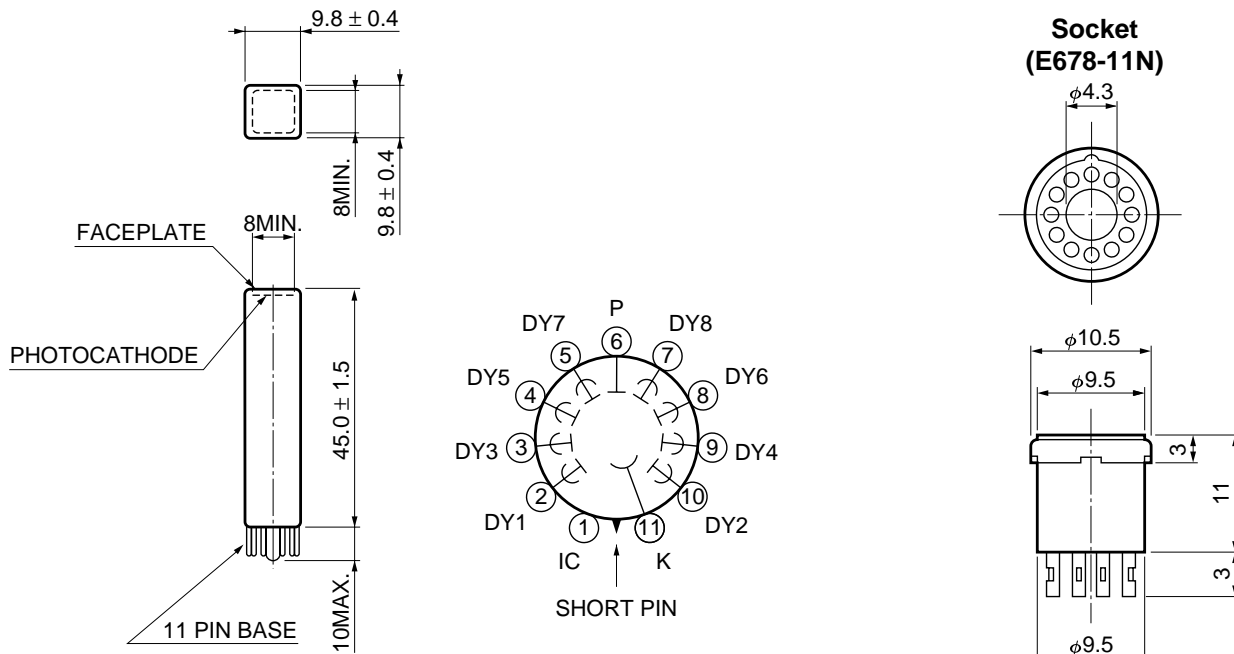


Figure 3: Dimensional Outline and Basing Diagram (Unit: mm)



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HAMAMATSU

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