HAMAMATSU

PHOTOMULTIPLIER TUBE
R374

Multialkali Photocathode for UV to Near IR Range, 28 mm (1-1/8 Inch) Diameter, 11-stage Head-On Type

GENERAL

Parameter		Description/Value	Unit
Spectral Response		185 to 850	nm
Wavelength of Maximum Response		420	nm
Photocathode	Material	Multialkali	—
	Minimum Effective Area	25	mm dia.
Window Material		UV glass	—
Dynode	Structure	Box and Grid	—
	Number of Stages	11	—
Base		14-pin glass base	—
Suitable Socket		E678-14C (supplied)	—

MAXIMUM RATINGS (Absolute Maximum Values)

Parameter		Value	Unit
Supply Voltage	Between Anode and Cathode	1500	Vdc
Average Anode Current		0.1	mA
Ambient Temperature		-80 to +50	°C

CHARACTERISTICS (at 25°C)

Parameter		Min.	Typ.	Max.	Unit
Cathode Sensitivity	Luminous (2856K)	80	150	—	μA/lm
	Red/White Ratio	—	0.2	—	—
	Radiant at 420nm	—	64	—	mA/W
Anode Sensitivity	Luminous (2856K)	20	80	—	A/lm
	Radiant at 420nm	—	3.4×10^4	—	A/W
Gain		—	5.3×10^5	—	—
Anode Dark Current (after 30min. storage in darkness)		—	3.0	15	nA
Time Response	Anode Pulse Rise Time	—	15	—	ns
	Electron Transit Time	—	60	—	ns

NOTE: Anode 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	P
Ratio	1	1	1	1	1	1	1	1	1	1	1	1	

Supply Voltage: 1000Vdc, K: Cathode, Dy: Dynode, P: 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

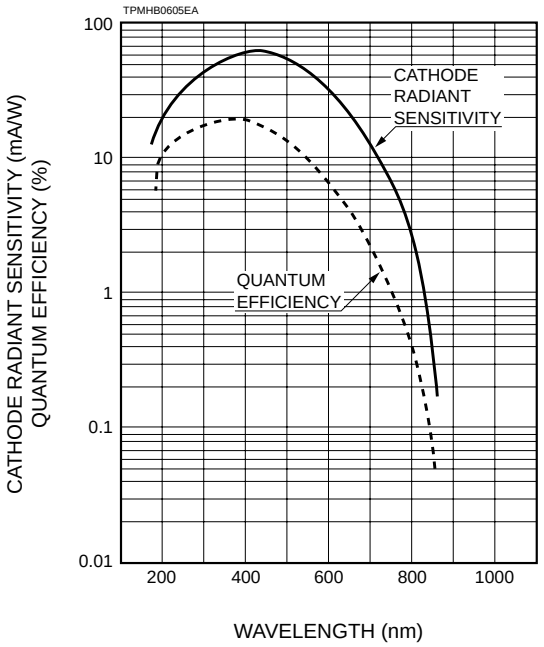


Figure 2: Typical Gain Characteristics

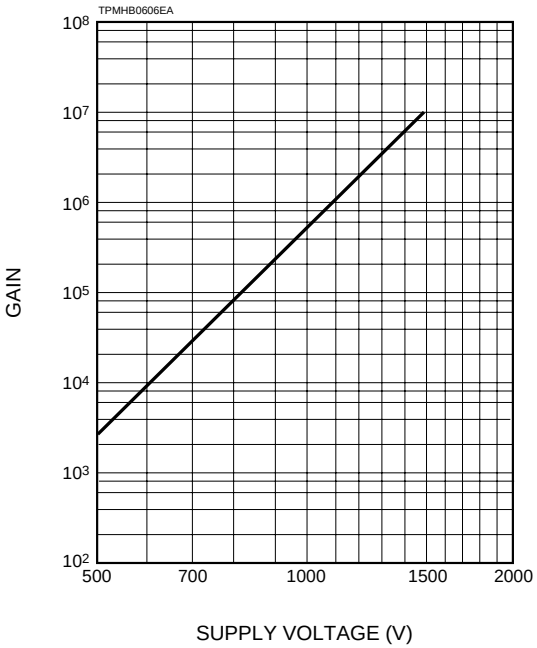
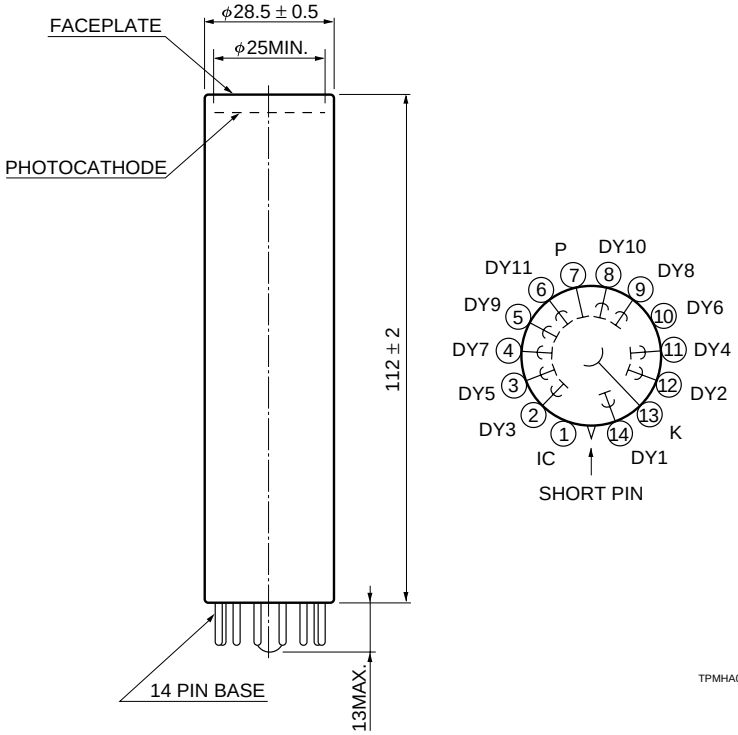
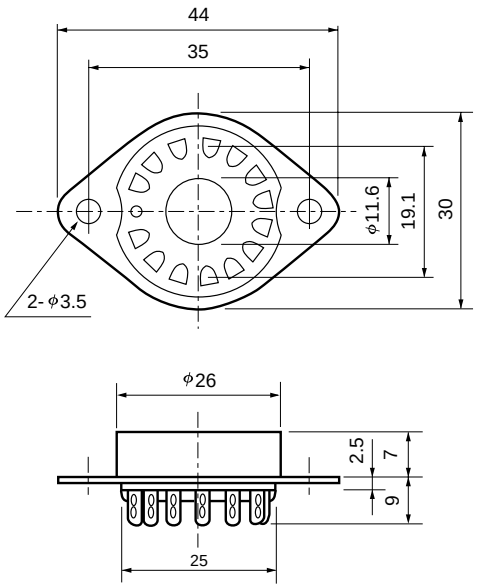


Figure 3: Dimensional Outline and Basing Diagram (Unit: mm)



Socket (E678-14C)



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