HAMAMATSU

PHOTOMULTIPLIER TUBES
R6094, R6095

28mm(1–1/8 Inch) Diameter, 11–stage, Bialkali Photocathode, Head–On Type, Low Dark Current, High Stability,Low Profile (R6094)

GENERAL

Parameter		Description/Value	Unit
Spectral Response		300 to 650	nm
Wavelength of Maximum Response		420	nm
Photocathode	Material	Bialkali	–
	Minimum Effective Area	25	mm dia.
Window Material		Borosilicate glass	–
Dynode	Structure	Box and Line	–
	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
	Between Anode and Last Dynode	250	Vdc
Average Anode Current		0.1	mA
Ambient Temperature		–80 to +50	℃

CHARACTERISTICS (at 25℃)

Parameter		Min.	Typ.	Max.	Unit
Cathode Sensitivity	Luminous (2856K)	60	95	–	μA/lm
	Radiant at 420nm	–	88	–	mA/W
	Blue (CS–5–58 filter)	–	11	–	μA/lm–b
Anode Sensitivity	Luminous (2856K)	50	200	–	A/lm
	Radiant at 420nm	–	1.8×10^5	–	A/W
Gain		–	2.1×10^6	–	–
Anode Dark Current (after 30min. storage in darkness)		–	2	10	nA
Time Response	Anode Pulse Rise Time	–	4	–	ns
	Electron Transit Time	–	30	–	ns
	Transit Time Spread (FWHM)	–	3	–	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	1

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

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Figure 1: Typical Spectral Response

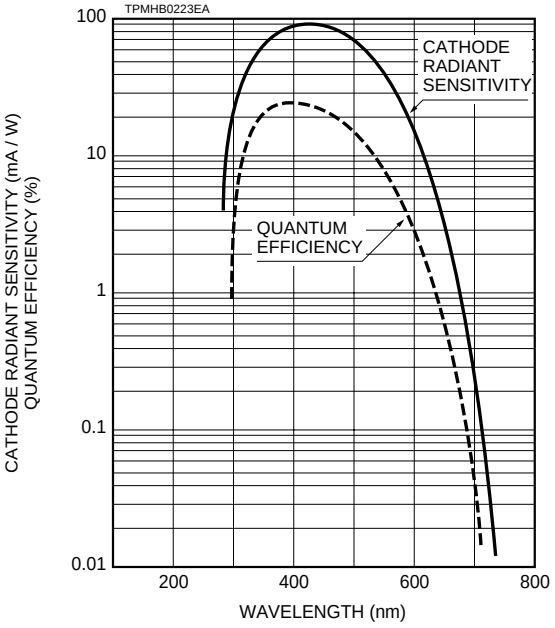


Figure 2: Typical Gain

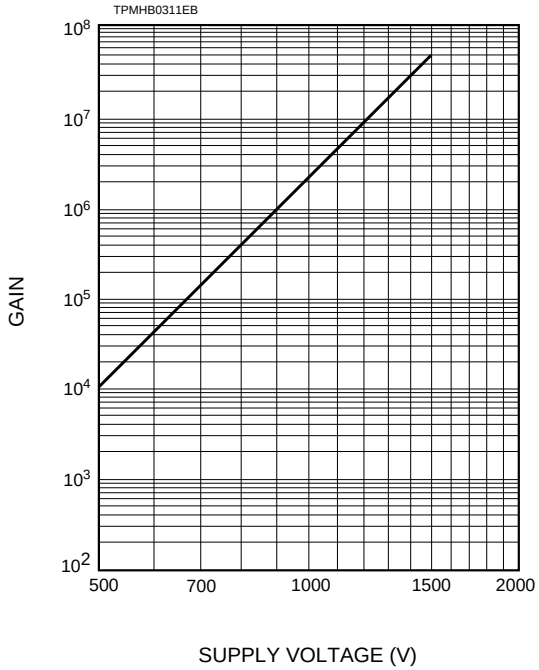
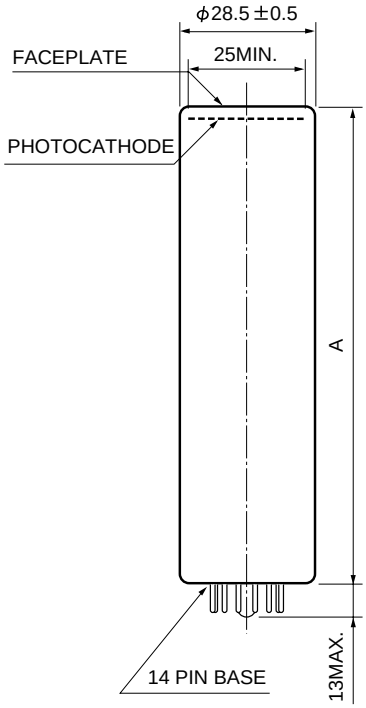
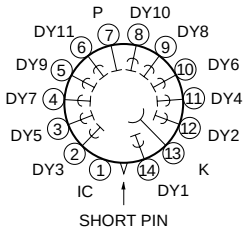


Figure 3: Dimensional Outline and Basing Diagram (Unit : mm)





BOTTOM VIEW (BASING DIAGRAM)

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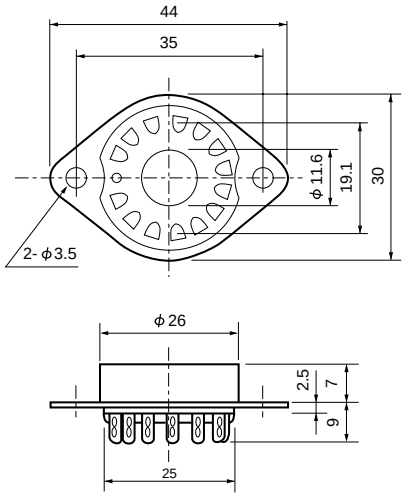
	R6094	R6095
A	92±2	112±2

Socket (E678–14C)



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