

**Compact, 25mm(1 Inch) Diameter
Good Near IR Response with Prismatic Window
10-stage, Head-On Type**

GENERAL

Parameter		Description / Value	Unit
Spectral Response		300 to 900	nm
Wavelength of Maximum Response		420	nm
Photocathode	Material	Multialkali	–
	Minimum Effective Area	21	mm dia.
Window Material		Borosilicate glass	–
Dynode	Structure	Circular-cage	–
	Number of Stages	10	–
Direct Interelectrode Capacitances	Anode to Last Dynode	1.2	pF
	Anode to All Other Electrodes	1.8	pF
Base		14-pin glass base	–
Suitable Socket		E678-14C (supplied)	–

MAXIMUM RATINGS (Absolute Maximum Values)

Parameter		Value	Unit
Supply Voltage	Between Anode and Cathode	1250	Vdc
	Between Anode and Last Dynode	250	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)	130	230	–	μ A/lm
	Radiant at 420nm	–	65	–	mA/W
	Red/White Ratio (R-68)	–	0.25	–	μ A/lm-b
Anode Sensitivity	Luminous (2856K)	20	100	–	A/lm
	Radiant at 420nm	–	2.8×10^4	–	A/W
Gain		–	4.3×10^5	–	–
Anode Dark Current (after 30min. storage in darkness)		–	3	20	nA
Time Response	Anode Pulse Rise Time	–	2.0	–	ns
	Electron Transit Time	–	19	–	ns
	Transit Time Spread(FWHM)	–	1.1	–	ns

NOTE: Anode characteristics are measured with the voltage distribution ratio shown below.

VOLTAGE DISTRIBUTION RATIO AND SUPPLY VOLTAGE

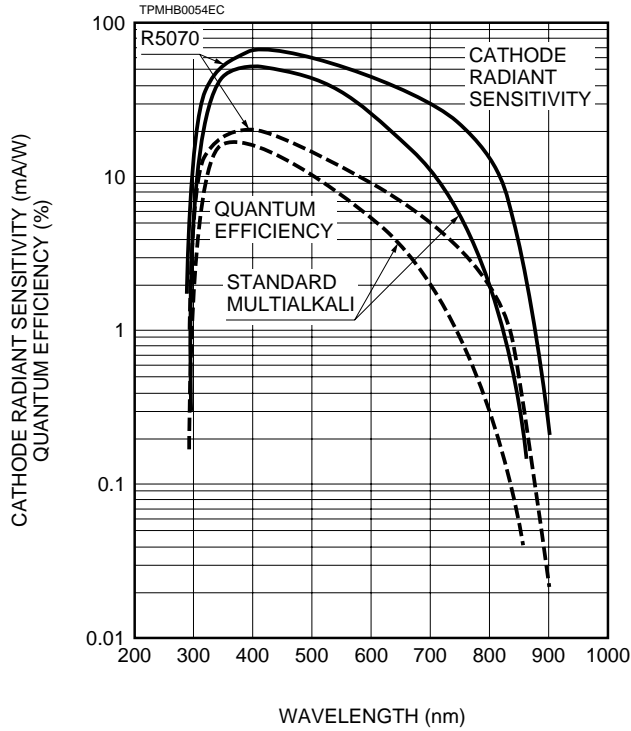
Electrodes	K	Dy1	Dy2	Dy3	Dy4	Dy5	Dy6	Dy7	Dy8	Dy9	Dy10	P
Ratio	3	1	1	1	1	1	1	1	1	1	1	1

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. Information furnished by HAMAMATSU is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or commission. Specifications are subjected to change without notice. No patent right are granted to any of the circuits described herein. © 1996 Hamamatsu Photonics K.K.

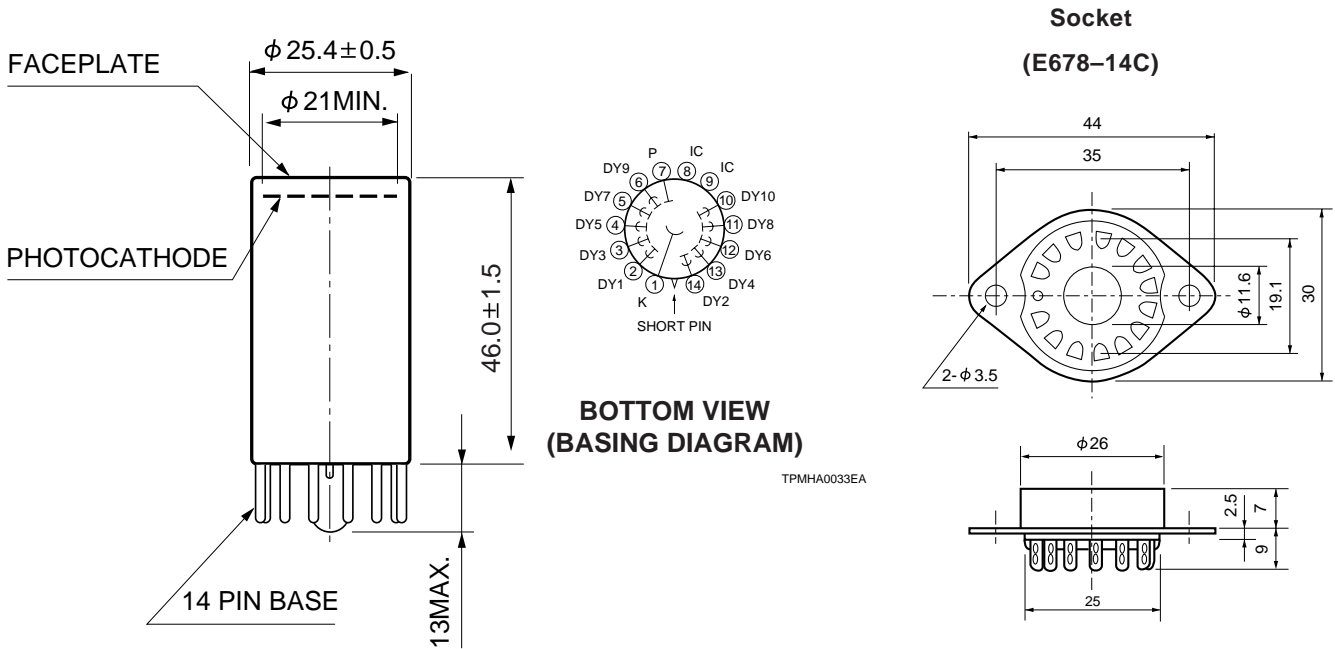
PHOTOMULTIPLIER TUBE R5070

Figure 1: Typical Spectral Response



Wavelength (nm)	400	500	600	700	800
Ratio of Sensitivity Increase (%)	+30	+35	+70	+150	+500

Figure 2: Dimensional Outline and Basing Diagram (Unit : mm)



HAMAMATSU

HAMAMATSU PHOTONICS K.K., Electron Tube Center

314-5, Shimokanzo, Toyooka-village, Iwata-gun, Shizuoka-ken, 438-0193, Japan, Telephone: (81)539/62-5248, Fax: (81)539/62-2205

U.S.A.: Hamamatsu Corporation: 360 Foothill Road, Bridgewater, N.J. 08807-0910, U.S.A., Telephone: (1)908-231-0960, Fax: (1)908-231-1218

Germany: Hamamatsu Photonics Deutschland GmbH: Arzbergerstr. 10, D-82211 Herrsching am Ammersee, Germany, Telephone: (49)8152-375-0, Fax: (49)8152-2658

France: Hamamatsu Photonics France S.A.R.L.: 8, Rue du Saule Trapu, Parc du Moulin de Massy, 91882 Massy Cedex, France, Telephone: (33)1 69 53 71 00, Fax: (33)1 69 53 71 10

United Kingdom: Hamamatsu Photonics UK Limited: Lough Point, 2 Gladbeck Way, Windmill Hill, Enfield, Middlesex EN2 7JA, United Kingdom, Telephone: (44)181-367-3560, Fax: (44)181-367-6384

North Europe: Hamamatsu Photonics Norden AB: Färögatan 7, S-164-40 Kista Sweden, Telephone: (46)8-703-29-50, Fax: (46)8-750-58-95

Italy: Hamamatsu Photonics Italia: S.R.L.: Via Della Moia, 1/E, 20020 Arese, (Milano), Italy, Telephone: (39)2-935 81 733, Fax: (39)2-935 81 741

TPMH1032E04
APR. 1996