

HAMAMATSU

PHOTOMULTIPLIER TUBE R5496

**High Speed Response (Rise Time: 1.5ns, TTS: 0.27ns)
53mm(2 Inch) Diameter, 10-stage, Bialkali Photocathode, Head-On Type**

GENERAL

Parameter		Description/Value	Unit
Spectral Response		300 to 650	nm
Wavelength of Maximum Response		420	nm
Photocathode	Material	Bialkali	–
	Minimum Effective Area	46	mm dia.
Window Material		Borosilicate glass	–
Dynode	Structure	Linear focused	–
	Number of Stages	10	–
Base		19-pin glass base	–
Suitable Socket		E678-19A (supplied)	–

MAXIMUM RATINGS (Absolute Maximum Values)

Parameter		Value	Unit
Supply Voltage	Between Anode and Cathode	3000	Vdc
	Between Anode and Last Dynode	1000	Vdc
Ambient Temperature		-80 to +50	°C

CHARACTERISTICS (at 25°C)

Parameter		Min.	Typ.	Max.	Unit
Cathode Sensitivity	Luminous (2856K)	60	80	–	μA/lm
	Blue (CS-5-58 filter)	–	10	–	μA/lm-b
Anode Sensitivity	Luminous (2856K)	100	1000	–	A/lm
Gain		–	1.3×10^7	–	–
Anode Dark Current (after 30min. storage in darkness)		–	100	800	nA
Time Response	Anode Pulse Rise Time	–	1.5	–	ns
	Transit Time Spread (FWHM)	–	0.27	–	ns

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

VOLTAGE DISTRIBUTION RATIO AND SUPPLY VOLTAGE

Electrodes	K	G	Dy1	Dy2	Dy3	Dy4	Dy5	Dy6	Dy7	Dy8	Dy9	Dy10	P
Ratio	1.3	4.8	1.2	1.8	1	1	1	1	1	1.5	3	2.5	

Supply Voltage : 2500Vdc, K : Cathode, Dy : Dynode, P : Anode, G : Grid

*Acc to be connected to Dy7 (Refer to basing diagram.)

Assembled type is recommended.

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Figure 1: Typical Spectral Response

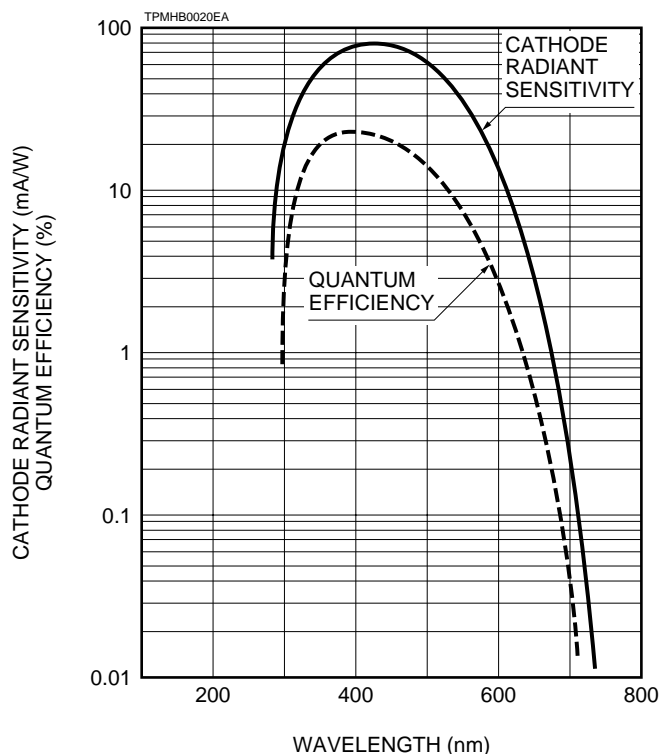


Figure 2: Transit Time Spread (FWHM)

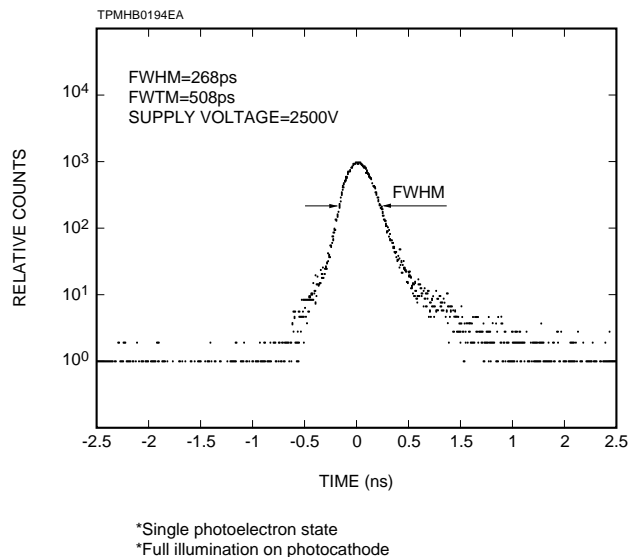
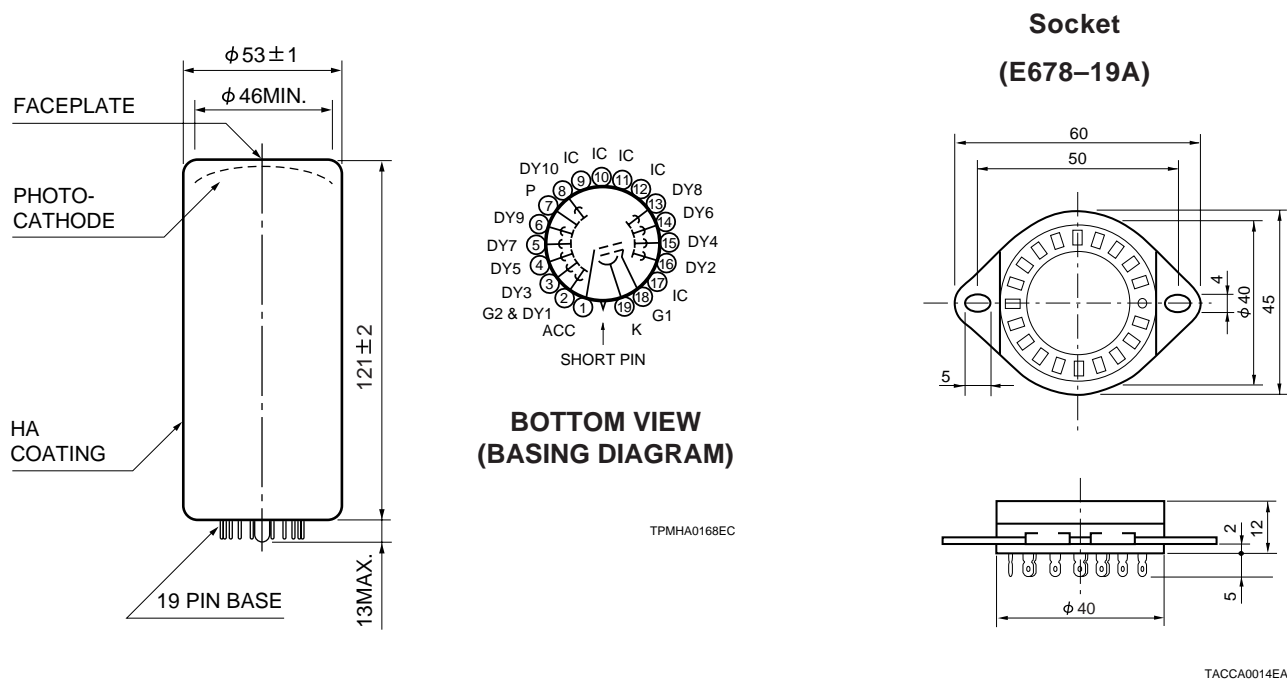


Figure 3: Dimensional Outline and Basing Diagram (Unit : mm)



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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, P. O. Box 6910, Bridgewater, N.J. 08807-0910, U.S.A., Telephone: (1)908-231-0960, Fax: (1)908-231-1218 E-mail: usa@hamamatsu.com

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

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 E-mail: infos@hamamatsu.fr

United Kingdom: Hamamatsu Photonics UK Limited: 2 Howard Court, 10 Tewin Road Welwyn Garden City Hertfordshire AL7 1BW, United Kingdom, Telephone: 44-(0)1707-294888, Fax: 44(0)1707-325777 E-mail: info@hamamatsu.co.uk

North Europe: Hamamatsu Photonics Norden AB: Smidesvägen 12, SE-171-41 SOLNA, Sweden, Telephone: (46)8-509-031-00, Fax: (46)8-509-031-01 E-mail: info@hamamatsu.se

Italy: Hamamatsu Photonics Italia: S.R.L.: Strada della Moia, 1/E, 20020 Arese, (Milano), Italy, Telephone: (39)02-935 81 733, Fax: (39)02-935 81 741 E-mail: info@hamamatsu.it

TPMH1051E04