

HIGH VOLTAGE POWER SUPPLY SOCKET ASSEMBLY **C6270**

C6270 is a high voltage power supply socket assembly for 28mm(1-1/8 inch) diameter side-on photomultiplier tubes (PMT), incorporating a regulated high voltage power supply and an active voltage divider. It enables simple yet stable PMT operations with extended DC output linearity by only supplying +15Vdc and connecting to a potentiometer or a 0 to +5V for high voltage adjustments.

■ FEATURES

- Superior DC Output Linearity
- Fast High Voltage Programming Response
- Low Power Consumption
- Wide High Voltage Output Range
- Low Ripple/Noise
- Low Cost

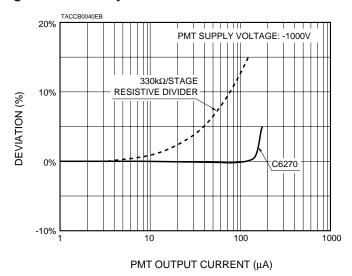
■ SPECIFICATIONS

Parameter		Description / Value	Unit
Applicable PMT		28mm(1-1/8 inch) diameter side-on types	_
Input Voltage		+15 ± 1	Vdc
Input Current at Maximum High Voltage		45	mA Typ.
Output Voltage Range		0 to -1250	Vdc
Linear DC Output of PMT ^(a)	at – 1000V	100	μΑ Тур.
	at - 500V	50	
Line Regulation Against ± 1V Input Change		±0.01	% Typ.
Ripple/Noise in High Voltage Output		0.008	%р-р Тур.
High Voltage Control		0 to +5V or external 50kΩ potentiometer	_
High Voltage Programming Response ®		80	ms Typ.
Temperature Coefficient of High Voltage Output		±0.01	%/°CTyp.
Operating Temperature		0 to +50	°C
Storage Temperature		-20 to +60	°C

NOTE: @ within 2% linearity

⑤ For 0 to 99% high voltage change

Figure 1: Linearity Characteristics



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 omissions. Specifications are subject to change without notice. No patent rights are granted to any of the circuits described herein. © 1998 Hamamatsu Photonics K.K.

HIGH VOLTAGE POWER SUPPLY SOCKET ASSEMBLY C6270

Figure 2: High Voltage Controlling Characteristics

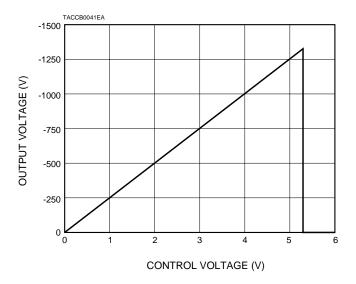


Figure 3: Practical PMT Output Limits

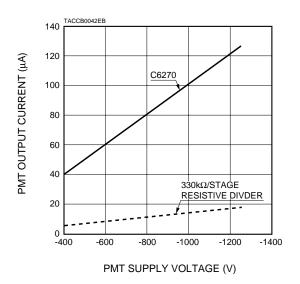
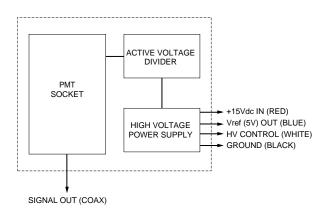
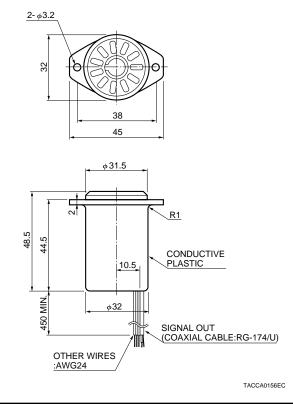


Figure 4: Schematic Diagram



TACCC0095EA

Figure 5: Dimensional Outline (Unit: mm)



HAMAMATSU

HAMAMATSU PHOTONICS K.K., Electoron 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
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 Kitsa Sweden, Telephone: (46)8-750-58-95
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