

FEATURES

- 2 × 2 quadrant multianode
- Metal channel dynode
- Built-in voltage divider circuit
- High speed response
- Low cross-talk

GENERAL

Parameter		Description/Value		Unit
		H6600	H6600-03	
Spectral Response		300 to 650	185 to 650	nm
Wavelength of Maximum Response		420		nm
Photocathode	Material	Bialkali		—
	Minimum Effective Area	φ 8		mm
Window Material		Borosilicate glass	UV glass	—
Dynode	Structure	Metal channel dynode		—
	Number of Stages	8		—
Weight		Approx. 35		g

MAXIMUM RATINGS (Absolute Maximum Values)

Parameter		Value	Unit
Supply Voltage	Between Anode and Cathode	900	Vdc
Average Anode Current (Total)		0.01	mA
Operating Temperature		+5 to +50	°C
Storage Temperature		-20 to +50	°C

CHARACTERISTICS (at 25°C)

Parameter		Min.	Typ.	Max.	Unit
Cathode Sensitivity	Luminous (2856K)	40	70	—	μ A/lm
	Blue (CS 5-58 filter)	—	8	—	μ A/lm -b
Anode Sensitivity ^(A)	Luminous (2856K)	—	21	—	A/lm
Gain ^(A)		1.0 × 10 ⁵	3.0 × 10 ⁵	—	—
Dark Current per Channel ^(A) (After 30 min. storage in darkness)		—	0.2	4	nA
Time Response ^(A)	Anode Pulse Rise Time	—	0.72	—	ns
Cross-talk (Aperture: anode size) at an Adjacent Anode		—	2	—	%

NOTE (A) :at -800V

MULTIANODE PHOTOMULTIPLIER TUBE ASSEMBLY H6600 SERIES

Figure 1: Typical Spectral Response

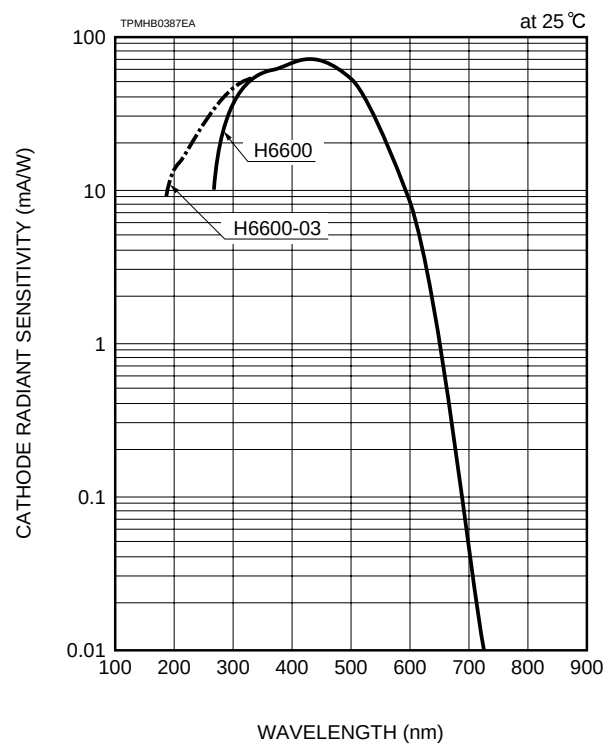


Figure 2: Typical Gain

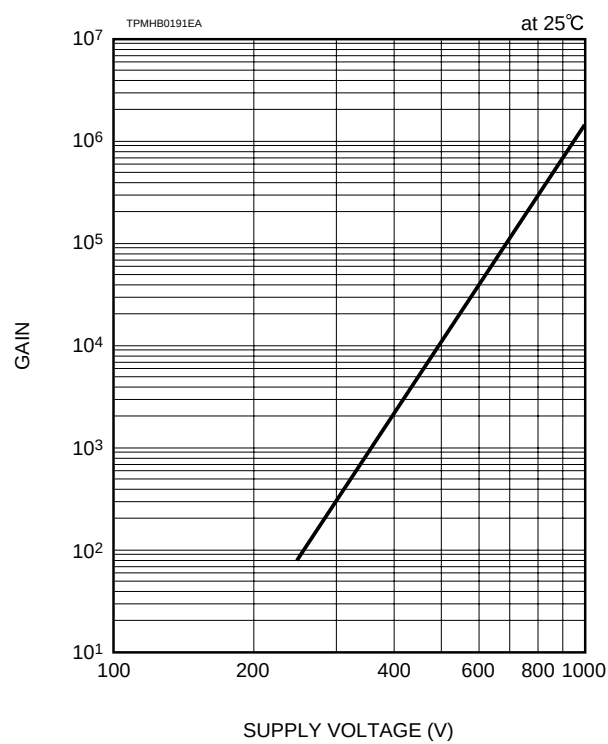
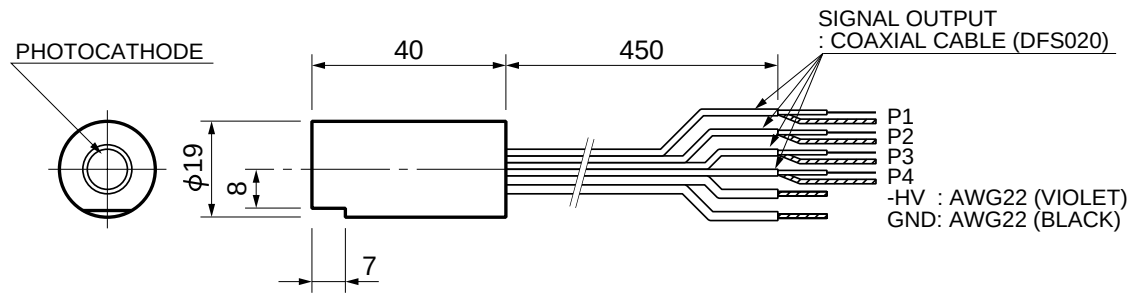
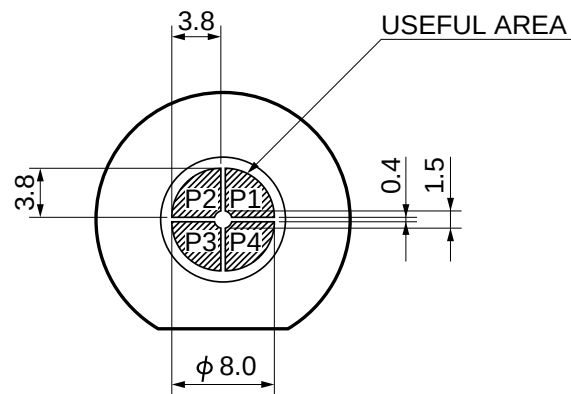


Figure 3: Dimensional Outline (Unit: mm)

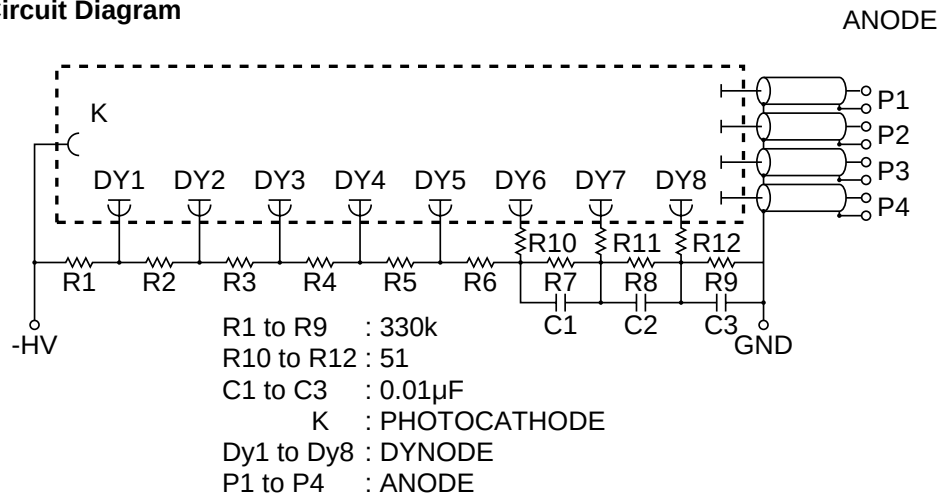


Anode Position and Useful Area (Unit: mm)



Top View

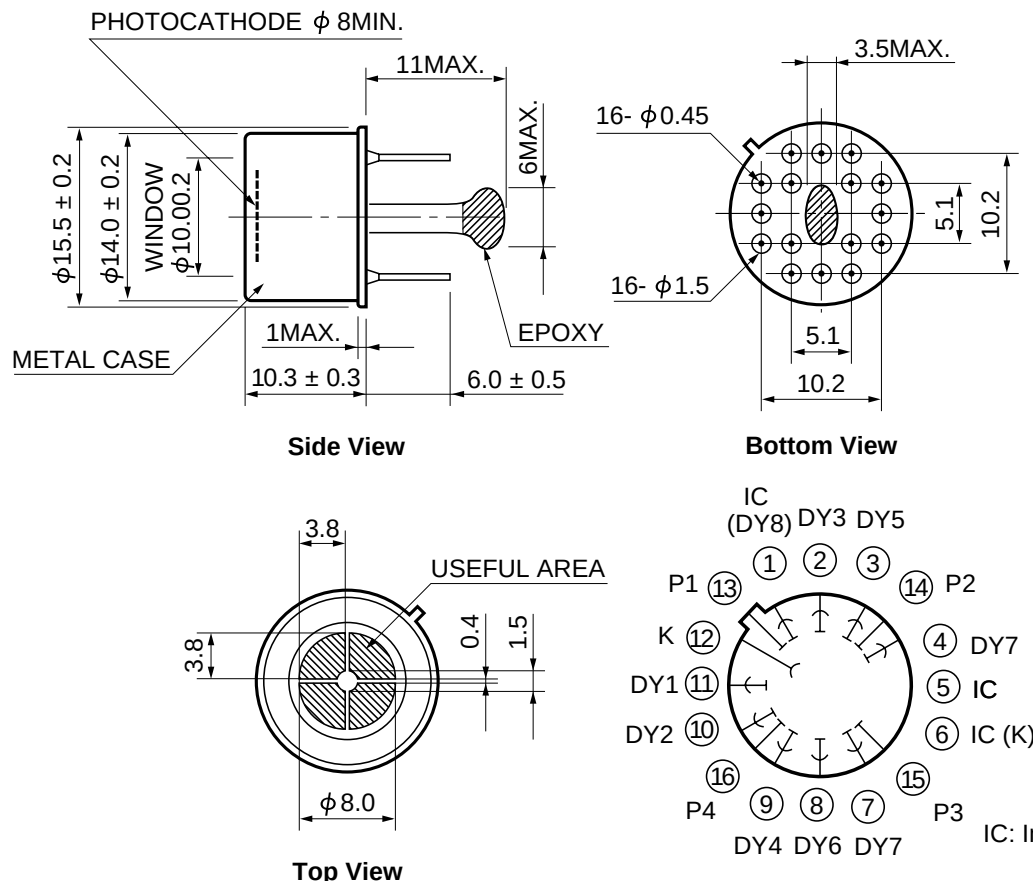
Circuit Diagram



MULTIANODE PHOTOMULTIPLIER TUBE ASSEMBLY H6600 SERIES

● Reference:

R5600-00-M4, R5600-03-M4 ※ R5600-00-M4 (R5600-03-M4) is employed inside of H6600 (H6600-03).



TPMHA0382EA

- H. Kyushima, et al, : Photomultiplier Tube of New Dynode Configuration; IEEE Trans. Nnd. Sci., Vol.41, No.4 (1994) 725
- Hamamatsu Photonics Technical Information: METAL PACKAGE PHOTOMULTIPLIER TUBES R5600U SERIES (Cat. No. TPMH9001E06)



WARNING ~High Voltage~

The product is operated at high voltage potential. Further, the metal housing of the product is connected to the photocathode (potential) so that it becomes a high voltage potential when the product is operated at a negative high voltage (anode grounded). Accordingly, extreme safety care must be taken for the electrical shock hazard to the operator or the damage to the other instruments. This caution specially noted for R5600 series which doesn't have an insulation cover with the product. It is recommended to select R5600U series if the external dimension isn't critical.

※ PATENT: USA 1 (PAT. No. 5410211) PATENT PENDING: JAPAN 12, USA 8, EUROPE 9

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