

FEATURES

- Good Anode Uniformity
1:1.1 Typ. (at -1000 V and peak wavelength)
- Low Cross-talk
0.1 % Typ. (each channel)
Black slit faceplate used
- High Cathode Sensitivity
Luminous 250 $\mu\text{A/lm}$ Typ. (-01 Type)
Luminous 500 $\mu\text{A/lm}$ Typ. (-20 Type)
- Anode Structure
2.8 mm Channel Pitch
2.0 mm \times 2.5 mm \times 8 Anodes

APPLICATIONS

- Biomedical Fluorescence Detection
- Laser Scanning Detection
- Spectroscopy
- Environmental Monitoring

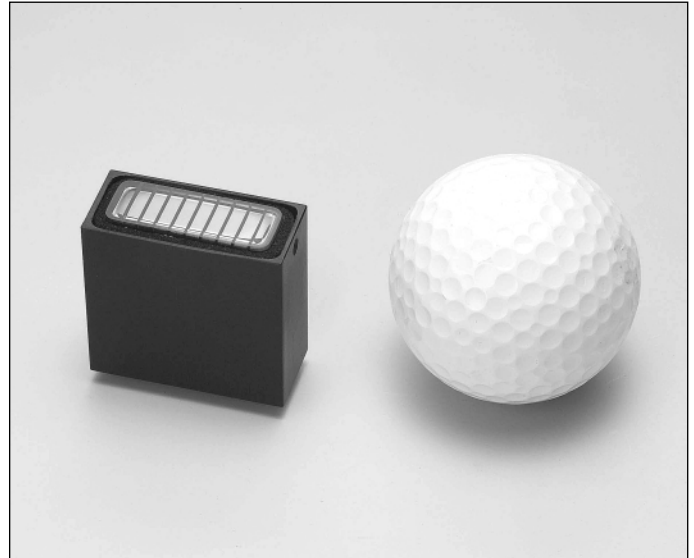


Figure 1: Typical Spectral Response

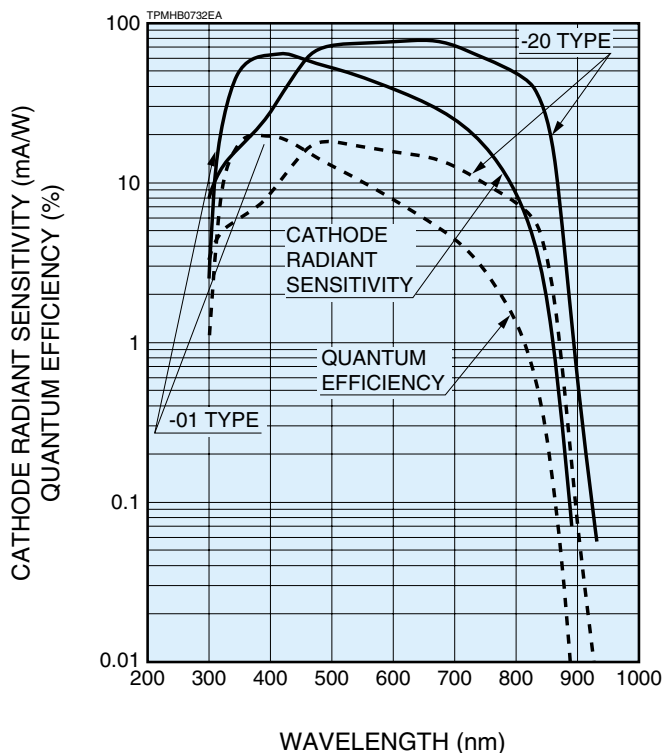
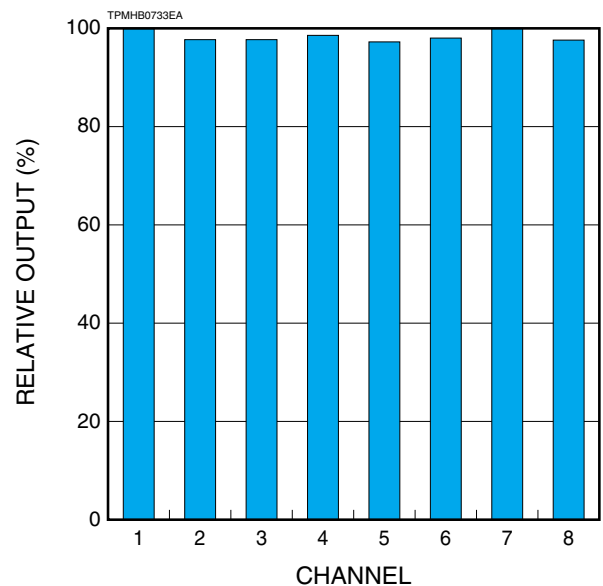


Figure 2: Anode Uniformity (Example)



Supply Voltage: -1000 V
Wavelength: peak wavelength

8 CHANNEL LINEAR ARRAY MULTIANODE PMT ASSEMBLY H9530 SERIES

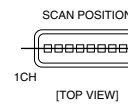
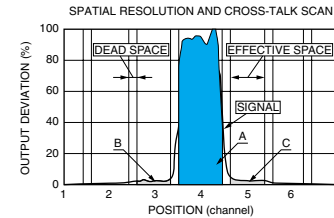
SPECIFICATIONS

Parameter		Description / Value		Unit
		H9530-01	H9530-20	
Spectral Response	Range	300 to 880	300 to 920	nm
	Peak Wavelength	420	630	nm
Photocathode	Material	Multialkali		—
	Effective Area per Channel	2.0 × 2.5		mm
Channel Pitch		2.8		mm
Window Material	Clear Parts	Borosilicate glass		—
	Slit Parts	Black Borosilicate glass		—
Dynode	Structure	Metal Channel		—
	Number of Stages	12		—
Insulation Cover Material		P.O.M.		—
Maximum Supply Voltage		-1200		V
Supply Voltage		-1000		V
Cathode	Luminous (2856 K)	250	500	μA/lm
	Red / White Ratio R-68	0.3	0.45	—
Anode	Luminous (2856 K)	750	1500	A/lm
	Dark Current per Channel (After 30 min.)	0.5	1	nA
Gain (at 1000 V)		3 × 10 ⁶		—
Cross-talk (Typ.)		0.1 ^(A)		%
Anode Uniformity (Typ.)		1: 1.1 ^(B)		—
Maximum Average Anode Current per Channel		10 ^(C)		μA

NOTE

(A) The ratio of signal between a channel and an average of adjacent two channels, when the incident light is given to the center channel through 2.0 mm × 2.5 mm aperture. Cross-talk is measured with the analog mode. Cross-talk: (Area B + Area C) / 2 / Area A × 100

Cross-talk (Example)

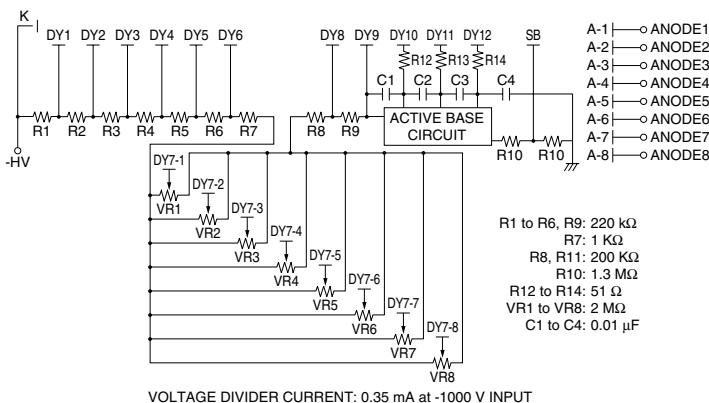
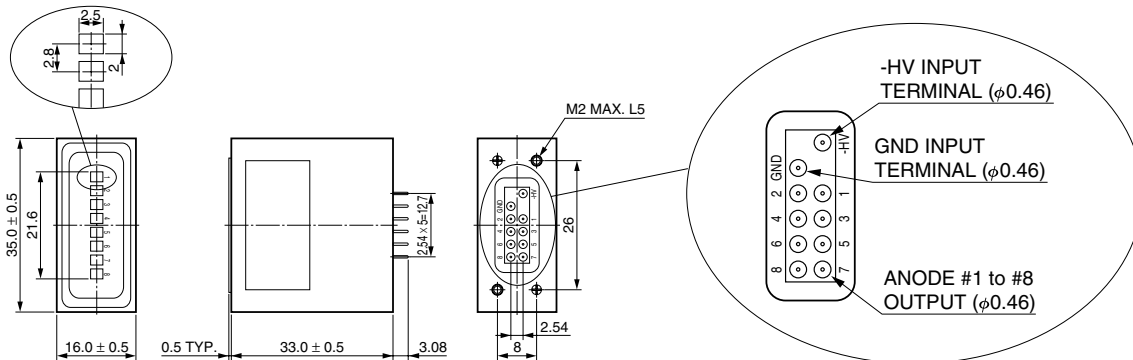


SUPPLY VOLTAGE: -1000 V
LIGHT SOURCE : TUNGSTEN LAMP
SPOT DIA. : 100 μm
SCAN PITCH : 50 μm

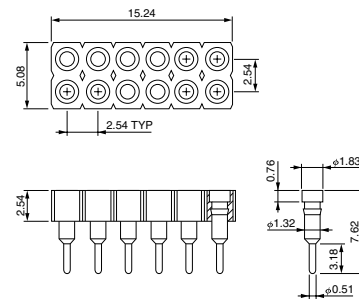
(B) Uniformity is measured on each channel with -1000 V at peak wavelength.

(C) at -1000 V

Figure 3: Dimensional Outline (Unit: mm)



SOCKET: SD-106-T-22 (Supplied)



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