

**Compact Size (16 mm diameter, 12 mm seated length)
High Gain, Fast Time Response**

FEATURES

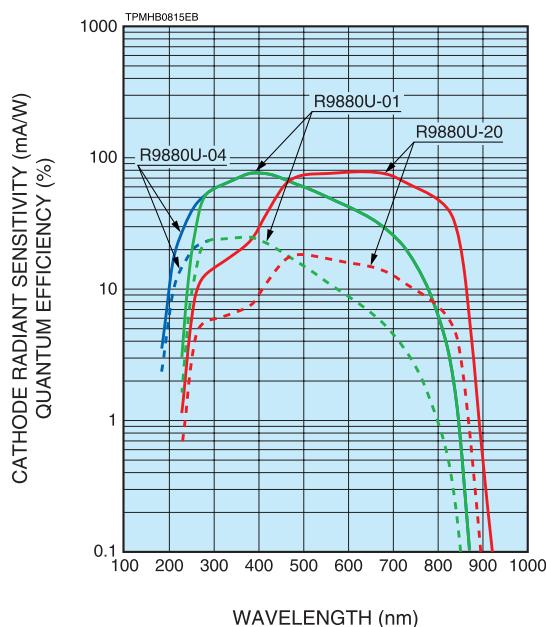
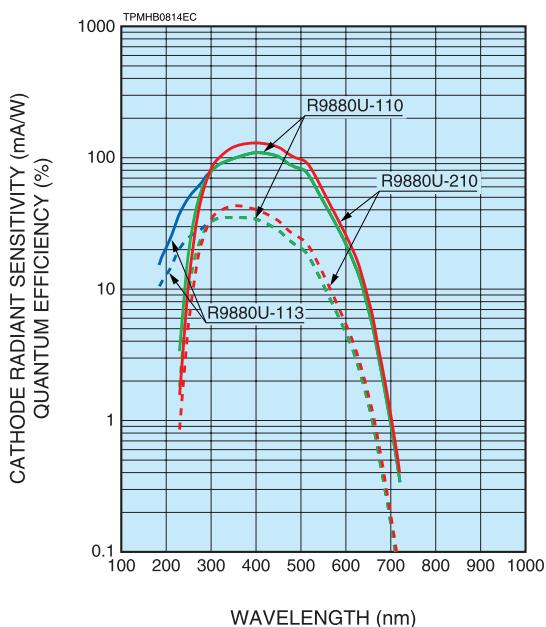
- Compact and Light Weight
- Metal Package (TO-8 Type)
- High Cathode Sensitivity
- High Gain 2×10^6 (Typ.)

APPLICATIONS

- Spectroscopy
- Biotechnology
- Radiation Measurement
- Bacteria Monitor



Figure 1: Typical Spectral Response



PHOTOMULTIPLIER TUBE R9880U SERIES

Type No.	Spectral Response		① Photo-cathode Material	② Window Material	③ Dynode Structure / Stages	Maximum Ratings		Cathode Characteristics			
	Range (nm)	Peak Wavelength (nm)				Supply Voltage Between Anode and Cathode (V)	Average Anode Output Current in Total (mA)	Min. (μA/lm)	Typ. (μA/lm)	Blue Sensitivity Index (CS 5-58) Typ.	Red/White Ratio (R-68) Typ.
R9880U-01	230 to 870	400	MA	K	MC/10	1100	0.1	100	200	—	0.2
R9880U-04	185 to 870	400		U				100	200	—	0.2
R9880U-20	230 to 920	630		K				350	500	—	0.45
R9880U-110	230 to 700	400		SBA				80	105	13.5	—
R9880U-113	185 to 700	400		SBA				80	105	13.5	—
R9880U-210	230 to 700	400		UBA				100	135	15.5	—

NOTE: ① MA: Multialkali, SBA: Super bialkali, UBA: Ultra bialkali

② K: Borosilicate glass, U: UV glass

③ MC: Metal channel

④ Measured at peak wavelength

Figure 2: Typical Gain

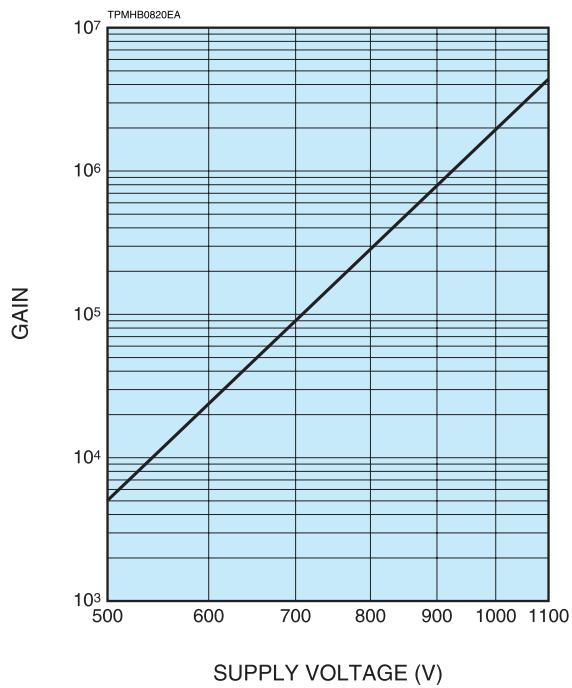
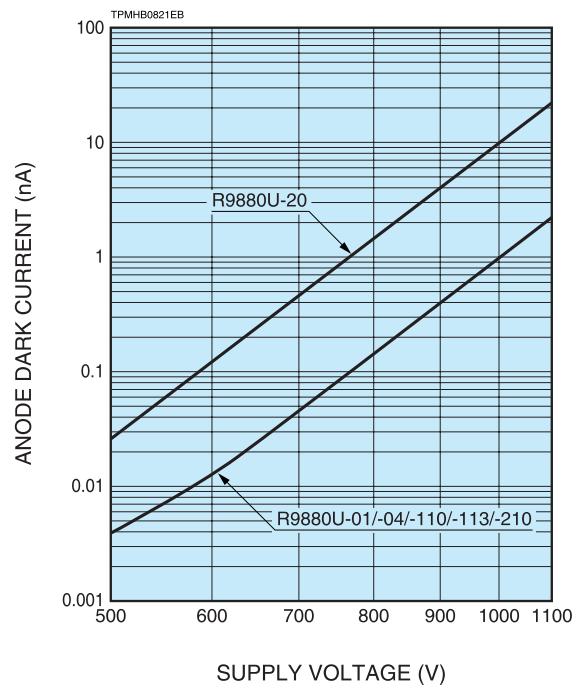


Figure 3: Anode Dark Current (v.s. Supply Voltage)



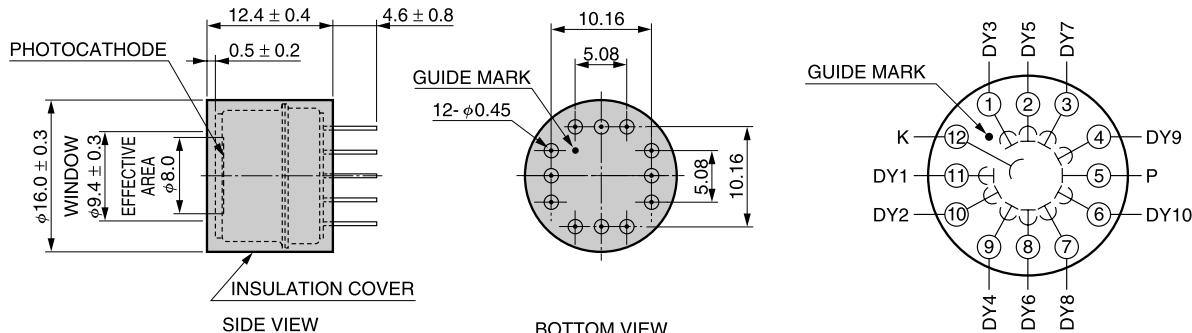
Anode to Cathode Supply Voltage (V)	Anode Characteristics						Operating Ambient Temperature (°C)	Storage Temperature (°C)	Type No.	
	Luminous		Gain Typ.	Dark Current (After 30 min)		Time Response				
	Min. (A/lm)	Typ. (A/lm)		Typ. (nA)	Max. (nA)	Rise Time Typ. (ns)	Transit Time Typ. (ns)	TTS Typ. (ns)		
1000	100	400	2.0 × 10 ⁶	1	10	0.57	2.7	0.2	-80 to +50	R9880U-01
	100	400		1	10					R9880U-04
	350	1000		10	100					R9880U-20
	80	210		1	10					R9880U-110
	80	210		1	10					R9880U-113
	100	270		1	10					R9880U-210

VOLTAGE DISTRIBUTION RATIO AND SUPPLY VOLTAGE

Electrodes	K	Dy1	Dy2	Dy3	Dy4	Dy5	Dy6	Dy7	Dy8	Dy9	Dy10	P
Distribution Ratio	1	1	1	1	1	1	1	1	1	1	1	0.5

Supply Voltage: 1000 V, K: Cathode, Dy: Dynode, P: Anode

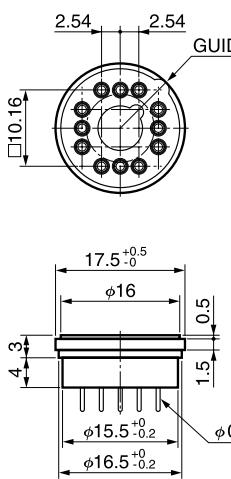
Figure 4: Dimensional Outline and Basing Diagram (Unit: mm)



TPMHA0539EC

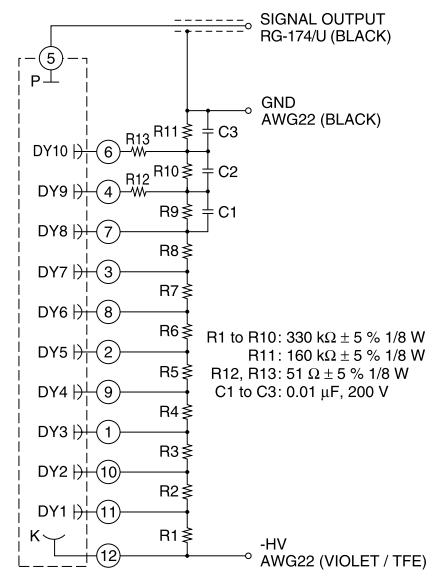
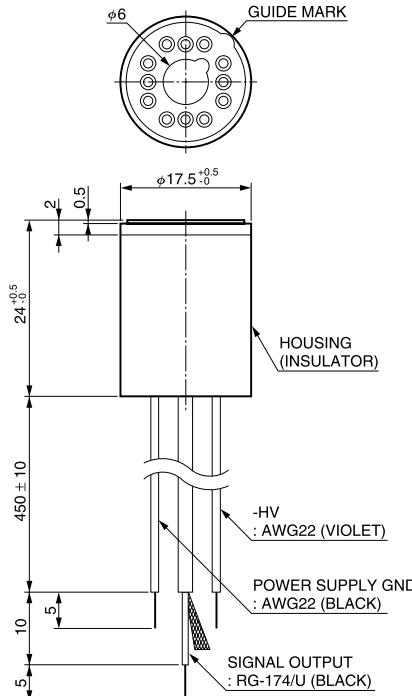
[ACCESSORIES] (Unit: mm) **SOLD SEPARATELY**

● Socket E678-12-01



TACCA0304EA

● D Type Socket Assembly E10679-02



MAXIMUM HIGH VOLTAGE = -1100 V
DIVIDER CURRENT = 318 μA

* SHV / BNC connector type (E10679-03) and pin type (E10679-51) are also available.

TACCA0299EC

TACCC0165EA