

## FEATURES

- Compact
- Low noise
- High reliability for vibration

## APPLICATIONS

- For scintillation counting
- Low level light detection



## SPECIFICATIONS

### GENERAL

Parameter		Description / Value	Unit
Spectral response		300 to 650	nm
Wavelength of maximum response		375	nm
Window material		Borosilicate glass	—
Photocathode	Material	Low noise bialkali	—
	Minimum effective area	φ10	mm
Dynode	Structure	Linear focused	—
	Number of stages	10	—
Operating ambient temperature		-30 to +70	°C
Storage temperature		-80 to +70	°C
Base		13-pin glass base	—
Suitable socket		E678-13F (supplied)	—

### MAXIMUM RATINGS (Absolute maximum values)

Parameter		Value	Unit
Supply voltage	Between anode and cathode	1250	V
	Between anode and last dynode	250	V
Average anode current		0.03	mA

### CHARACTERISTICS (at 25 °C)

Parameter		Min.	Typ.	Max.	Unit
Cathode sensitivity	Luminous (2856 K)	25	40	—	μA/lm
	Radiant at 375 nm	—	50	—	mA/W
	Blue sensitivity index (CS 5-58 filter)	3.5	5.5	—	—
Anode sensitivity	Luminous (2856 K)	50	200	—	A/lm
	Radiant at 375 nm	—	2.5 × 10 <sup>5</sup>	—	A/W
Gain		—	5.0 × 10 <sup>6</sup>	—	—
Anode dark current (after 30 minute storage in darkness)		—	0.5	4.0	nA
Time response	Anode pulse rise time	—	2.2	—	ns
	Electron transit time	—	22	—	ns

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

### VOLTAGE DISTRIBUTION RATIO AND SUPPLY VOLTAGE

Electrodes	K	Dy1	Dy2	Dy3	Dy4	Dy5	Dy6	Dy7	Dy8	Dy9	Dy10	P
Ratio	2	1	1	1	1	1	1	1	1	1	1	1

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

# PHOTOMULTIPLIER TUBE R2557

Figure 1: Typical spectral response

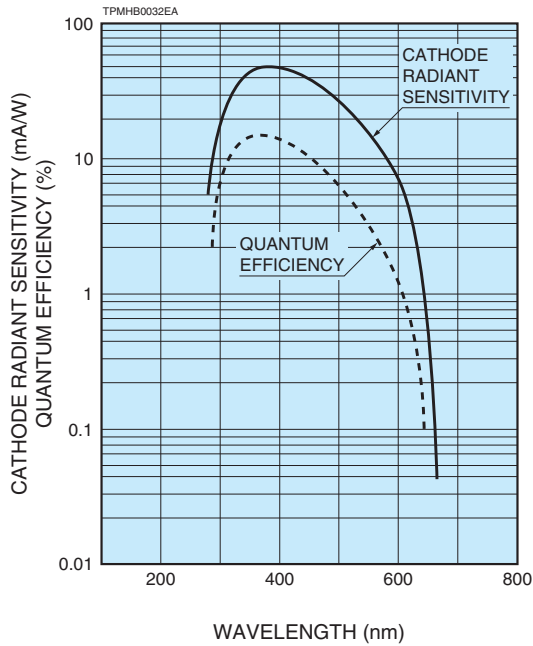


Figure 2: Typical gain

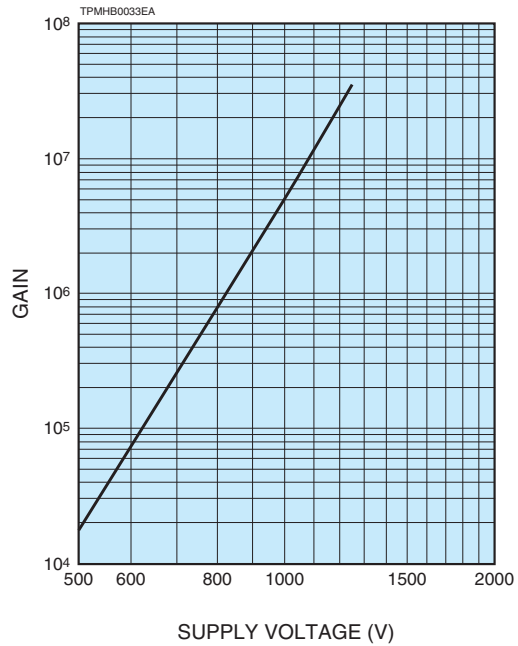
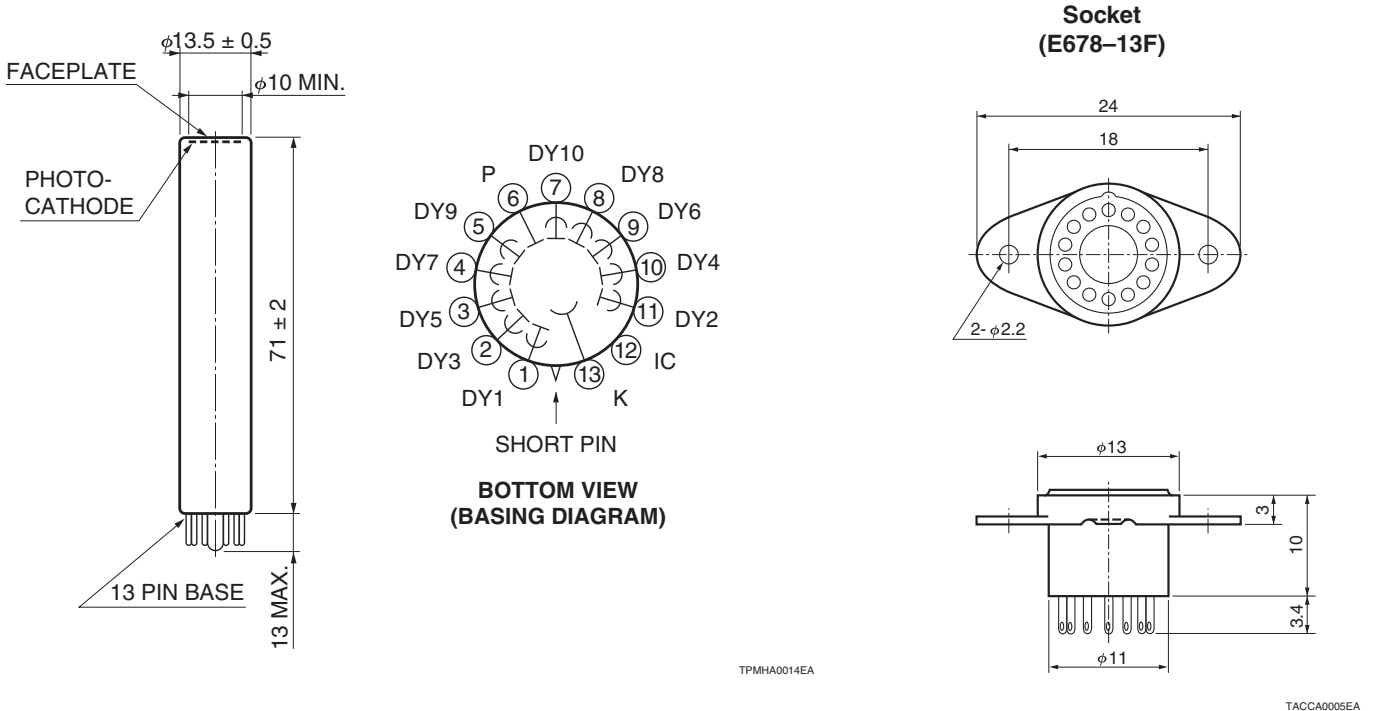


Figure 3: Dimensional outline and basing diagram (Unit: mm)



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