

**For Astrophysics and other ultraviolet radiation detection  
28mm(1-1/8 Inch) diameter, 11-stage, Cs-Te photocathode  
Solar blind response(160nm to 320nm), Head-on type**

## GENERAL

Parameter		Description / Value	Unit
Spectral Response		160 to 320	nm
Wavelength of Maximum Response		240	nm
Photocathode	Material	Cs-Te	-
	Minimum Effective Area	25	mm dia.
Window Material		Synthetic silica	-
Dynode	Structure	Box & Line	-
	Number of Stages	11	-
Suitable Socket		E678-14C (supplied)	-

## MAXIMUM RATINGS (Absolute Maximum Values)

Parameter		Value	Unit
Supply Voltage	Between Anode and Cathode	1500	Vdc
	Between Anode and Last Dynode	250	Vdc
Average Anode Current		0.01	mA

## CHARACTERISTICS (at 25°C)

Parameter		Min.	Typ.	Max.	Unit
Cathode Sensitivity	Radiant at 254nm	-	28	-	mA/W
Anode Sensitivity	Radiant at 254nm	-	$1.4 \times 10^4$	-	A/W
Gain		-	$5.0 \times 10^5$	-	-
Anode Dark Current (after 30min. storage in darkness)		-	0.3	1.0	nA
Time Response	Anode Pulse Rise Time	-	4.0	-	ns
	Electron Transit Time	-	30	-	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	Dy11	P
Ratio	1	1	1	1	1	1	1	1	1	1	1	1	1

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

# PHOTOMULTIPLIER TUBE R6834

Figure 1: Typical Spectral Response

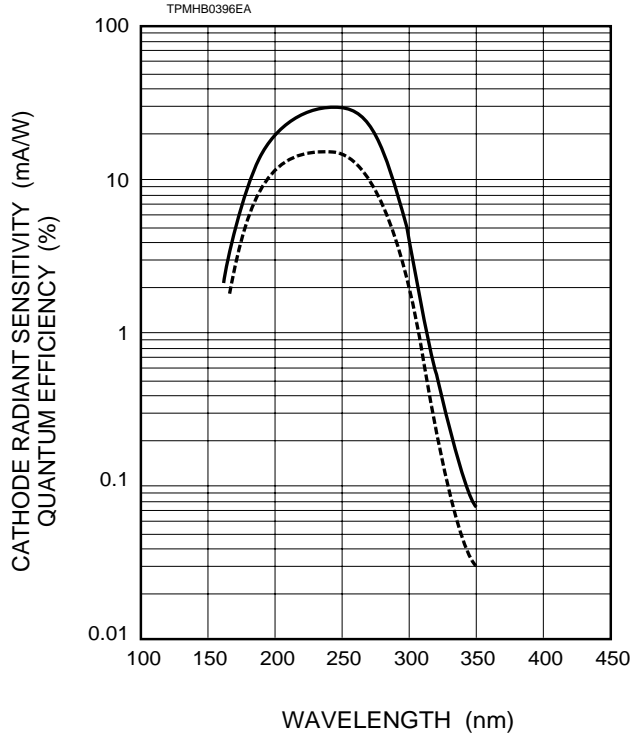


Figure 2: Typical Gain

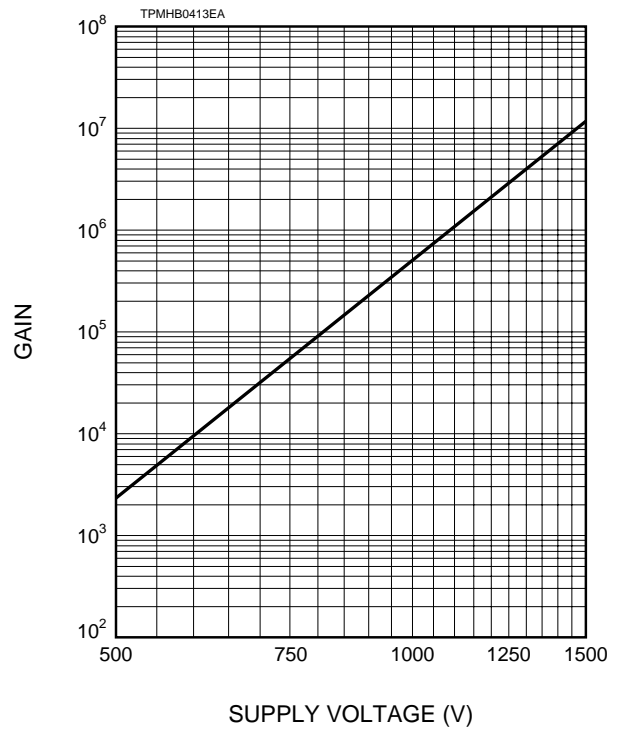
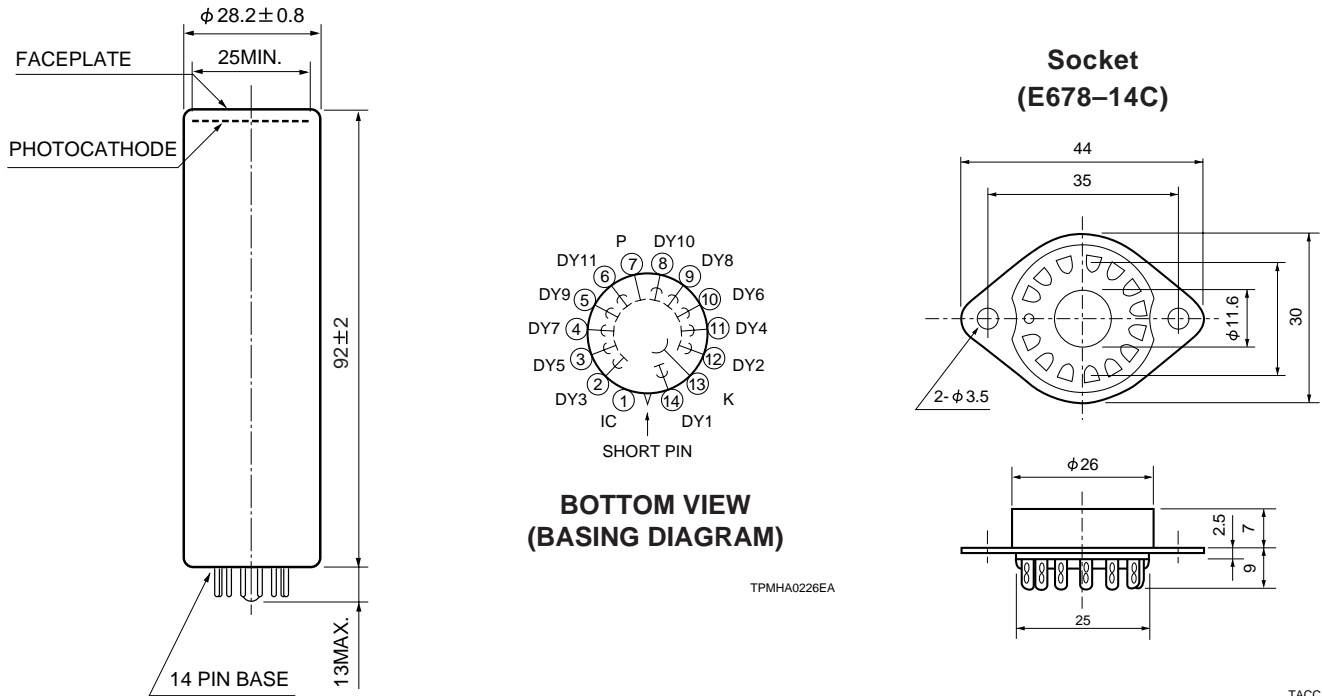


Figure 3: Dimensional Outline and Basing Diagram (Unit : mm)



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