TECHNICAL INFORMATION



R10533

For Scintillation counting, Fast time response 51mm (2 inch) Diameter, Bialkali Photocathode, 10-stage, Head-On Type,

GENERAL

	Parameters	Ratings	Units	
Spectral Respons	se	300 to 650	nm	
Wavelength of M	Maximum Response	420	nm	
Window Materia	ıl	Borosilicate glass	-	
Photocathode	Material	Bialkali	-	
	Minimum Effective Area	46	mm dia.	
Dynode Structur	e / Number of Stages	Linear Focused/ 10		
Base		Temporary Base	-	
Suitable Socket		E678-20A	-	
Operating Ambie	ent Temperature	perature -30 to +50		
Storage Tempera	nture	-80 to +50	°C	

MAXIMUM RATINGS (Absolute Maximum Values)

	Parameter	Value	Units
Supply Voltage	Between Anode and Cathode	2000	V
	Between Anode and Last Dynode	250	V
Average Anode Cu	rrent	0.1	mA

CHARACTERISTICS (at 25 °C)

	Parameters	Min.	Тур.	Max.	Unit
Cathode Sensitivity	Luminous(2856 K)	70	95	1	μA/lm
	Blue Sensitivity Index (Cs 5-58)	9	11	-	-
Anode Sensitivity	Luminous(2856 K)	-	400	-	A/lm
Gain		-	$4.2x10^6$	-	-
Anode Dark Current	(after 30 min. strage in darkness)	-	50	300	nA
Time Response	Anode Pulse Rise Time	-	2.0	-	ns
	Electron Transit Time	-	24	-	ns
	Transit Time Spread (FWHM)	-	280	-	ps
Pulse Linearity (+/-29	-	50	-	mA	

NOTE: Anode characteristics are measured with a voltage distribution ratio and supply voltage shown below.

STANDARD VOLTAGE DIVIDER AND SUPPLY VOLTAGE

Electrodes	K	G	Dy1	Dy2	Dy3	Dy4	Dy5	Dy6	Dy7(Acc)	Dy8	Dy9	Dy10	P
Ratio	1.3	3 4.8	1.5	1.5	5 1		1	1 1	1 1	1		1 1	

Supply Voltage: 1750 V, K:Cathode, Dy:Dynode, P:Anode, G:Grid, Acc to be connected Dy7

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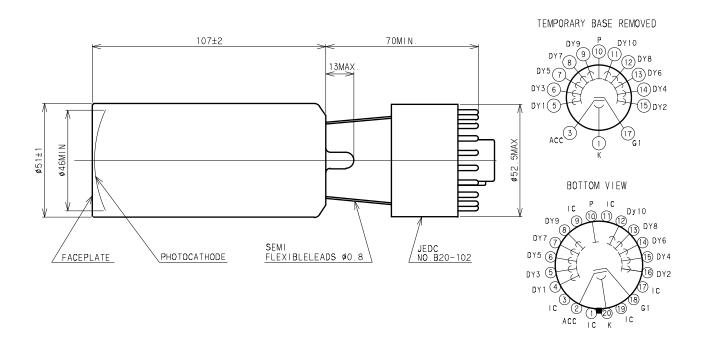


Figure 1: Dimensional Outline (Unit: mm)

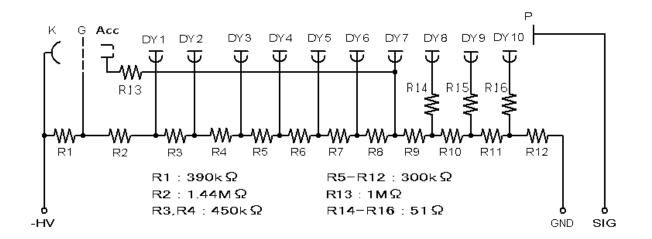


Figure 2: Recommend Voltage Divider Circuit

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