

**For the Operation in High Magnetic Field over 1 Tesla
51mm(2 Inch) Head-on, Fast Time Response, High Pulse Linearity
Fine Mesh Dynodes, 19-stage, Bialkali Photocathode**

GENERAL

Parameter		Description/Value	Unit
Spectral Response		300 to 650	nm
Wavelength of Maximum Response		420 ± 50	nm
Photocathode	Material	Bialkali	—
	Minimum Effective Area	39	mm dia.
Window	Material	Borosilicate glass	—
	Shape	Plano-plano	—
Dynode	Structure	Fine mesh	—
	Number of Stages	19	—
Base		Flexible Leads	—
Suitable Socket		—	—

MAXIMUM RATINGS (Absolute Maximum Values)

Parameter		Value	Unit
Supply Voltage	Between Anode and Cathode	2300	Vdc
	Between Anode and Last Dynode	200	Vdc
Average Anode Current		0.1	mA

CHARACTERISTICS (at 25°C)

Parameter		Min.	Typ.	Max.	Unit
Cathode Sensitivity	Luminous (2856K)	—	70	—	μ A/lm
	Blue (CS-5-58 filter)	—	9	—	μ A/lm-b
	Quantum Efficiency at 390nm	—	22	—	%
Anode Sensitivity	Luminous (2856K)	—	700	—	A/lm
Gain	At 0 tesla	—	1.0 × 10 ⁷	—	—
	At 1 tesla	—	2.5 × 10 ⁵	—	—
Anode Dark Current (after 30min. storage in darkness)		—	30	200	nA
Time Response	Anode Pulse Rise Time	—	2.5	—	ns
	Transit Time	—	9.5	—	ns
	Transit Time Spread (FWHM)	—	0.44	—	ns
Pulse Linearity (at 2% Deviation)		—	500	—	mA

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	Dy19	P
Ratio	2	1	1	1	1	1	1	1	1

Supply Voltage : 2000Vdc, K : Cathode, Dy : Dynode, P : Anode

