

**Ruggedized, 38 mm (1-1/2 Inch) Diameter, Bialkali Photocathode
10-Stage, Circular and Linear-focused Dynode, Head-on Type**

GENERAL

Parameter		Description / Value	Unit
Spectral Response		300 to 650	nm
Wavelength of Maximum Response		420 ± 50	nm
Photocathode	Material	Bialkali	—
	Minimum Effective Area	φ34	mm
Window Material		Borosilicate glass	—
Dynode	Structure	Circular and Linear-focused	—
	Number of Stages	10	—
Direct Interelectrode Capacitances	Anode to Last Dynode	3	pF
	Anode to All Other Electrodes	4	pF
Operating Ambient Temperature		-30 to +50	°C
Storage Temperature		-80 to +50	°C
Base		12-pin base JEDEC No. B12-43	—
Suitable Socket		E678-12R (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		0.1	mA

CHARACTERISTICS (at 25 °C)

Parameter		Min.	Typ.	Max.	Unit
Cathode Sensitivity	Luminous (2856 K)	60	90	—	μA/lm
	Radiant at 420 nm	—	85	—	mA/W
	Blue Sensitivity Index (CS 5-58)	9	10.5	—	—
	Quantum Efficiency at 390 nm	—	26	—	%
Anode Sensitivity	Luminous (2856 K)	10	45	—	A/lm
	Radiant at 420 nm	—	4.3 × 10 ⁴	—	A/W
Gain		—	5.0 × 10 ⁵	—	—
Anode Dark Current (after 30 min. storage in darkness)		—	3	5	nA
Time Response	Anode Pulse Rise Time	—	3.0	—	ns
	Electron Transit Time	—	30	—	ns
	Transit Time Spread (FWHM)	—	2.0	—	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 dc, K: Cathode, Dy: Dynode, P: Anode

ENVIRONMENTAL TESTING

Shock 1000 m/s² (100G), 11 ± 1 ms, 3 impact shocks per direction (6 directions)

Vibration 200 m/s² (20G), 50 Hz to 2000 Hz, 1 oct per minute, 3 sweeps per axis (3 axes)

PHOTOMULTIPLIER TUBE R3886A

Figure 1: Typical Spectral Response

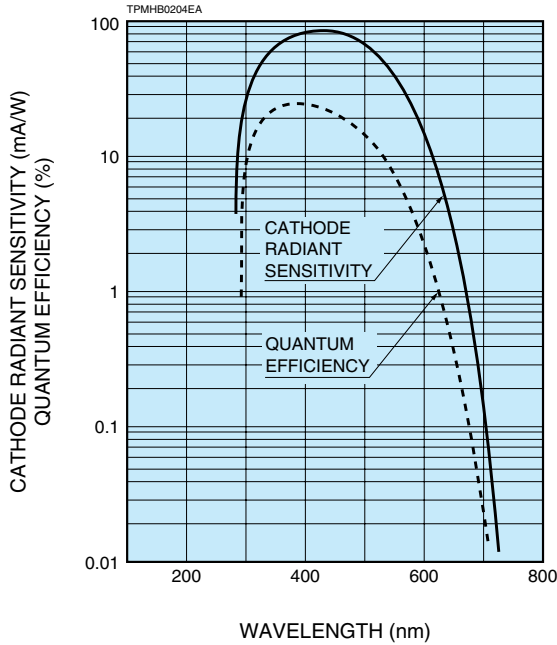
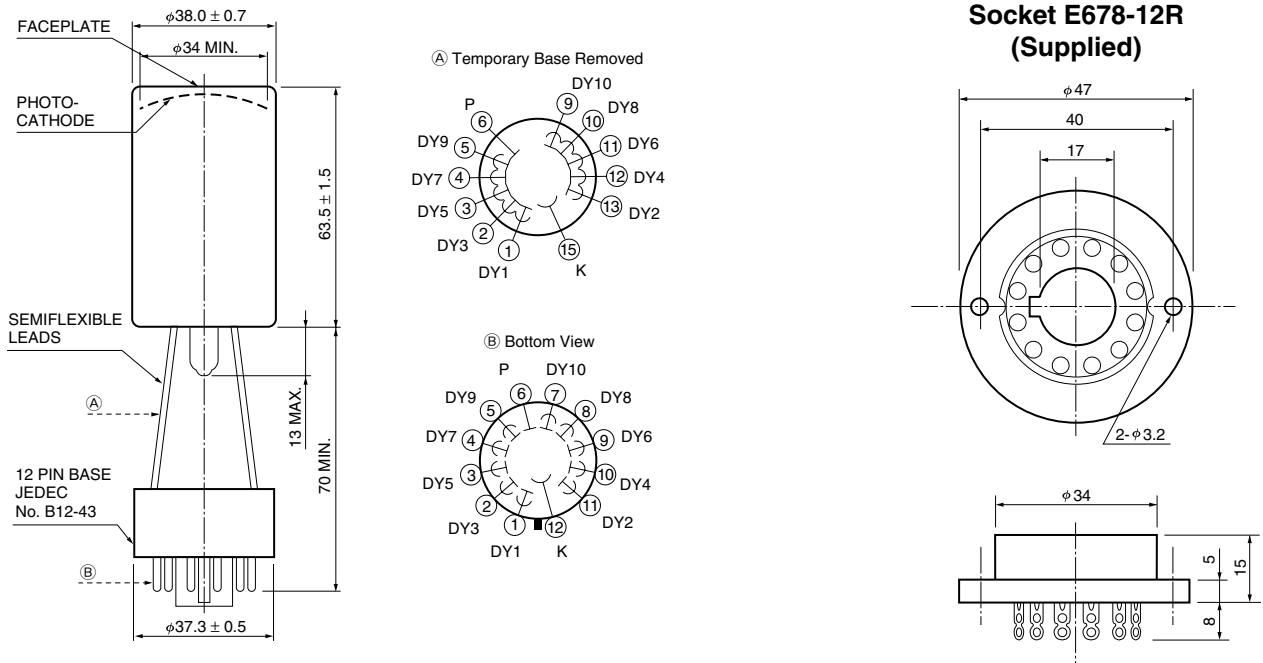


Figure 2: Dimensional Outline and Basing Diagram (Unit: mm)



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