TENTATIVE Oct. 2024

R10560 with taper ratio

For calorimeter experiment, 25 mm (1 inch) Diameter, Bialkali photocathode, 8-stage dynodes, Head-on PMT assembly

GENERAL

	Parameter	Description / Value	Unit
Spectral Response		185 to 650	nm
Wavelength of C	Cathode Radiant Sensitivity Response	420	nm
Window Materia	ıl	UV glass	-
Photocathode	Material	Bialkali	-
	Minimum Effective Area	φ 22	mm
Dynode Structur	re / Number of Stage	Linear Focused/ 8	
Base		-	-
Suitable Socket		-	-
Operating Ambi	perating Ambient Temperature TBD		°C
Storage Temperature		TBD	°C

MAXIMUM RATINGS (Absolute Maximum Values)

Parameter	Value	Unit
Supply Voltage (Between Anode and Cathode)	-1300	V
Average Anode Current	0.1	mA

CHARACTERISTICS (at 25 °C)

	Parameter		Тур.	Max.	Unit		
Cathoda Canaitivity	Luminous (2856K)	70	95	-	μA/lm		
Cathode Sensitivity	Blue Sensitivity Index	9	70 95 -	-			
Anode Sensitivity	Luminous (2856K)	-	9.5	-	A/lm		
Gain			-				
Anode Pulse Rise Ti		Figure 2					
Anode Pulse width		Figure 3					
Transit Time Spread	(FWHM)	M) Figure 4					
Pulse Linearity (+/-2	% deviation)	-	20	-	mA		
Magnetic field chara		%					

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

: These data were obtained from small number of samples, that is not enough to establish the final specs.

STANDARD VOLTAGE DIVIDER AND SUPPLY VOLTAGE

Electrodes	K	Dy	y1 E) v2	Dy3	Dy4	Dy	5 I I	Dy6	Dy7	Dy8	P
Ratio	6		1.5	1.5	1	1		1	1.5	2	1.3	5

Supply Voltage: -900 V, K: Cathode, Dy: Dynode, P: Anode





Gain characteristics

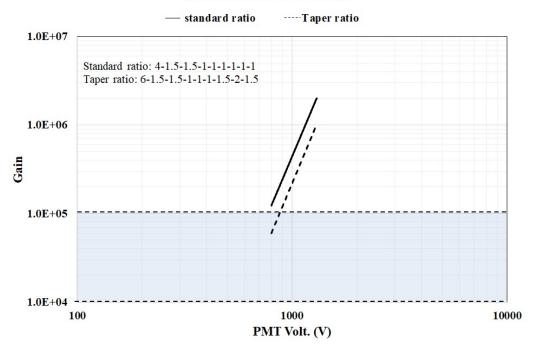


Figure 1: Gain characteristics

Anode pulse rise time

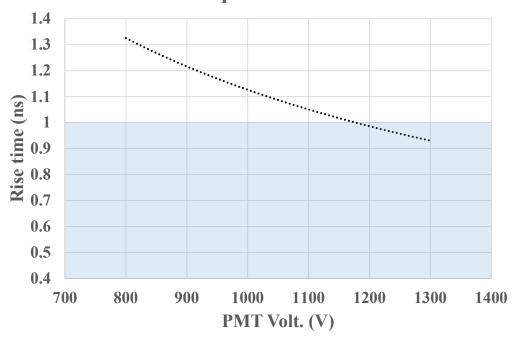


Figure 2: Anode rise time with taper ratio





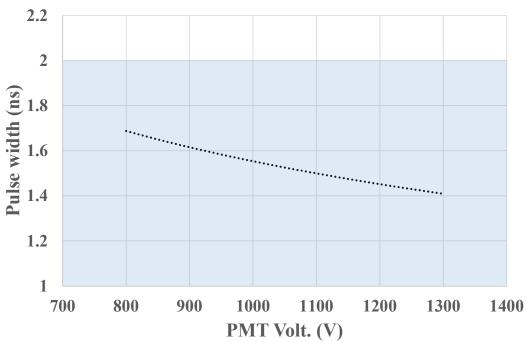


Figure 3: Anode pulse width with taper ratio

Transit time spread

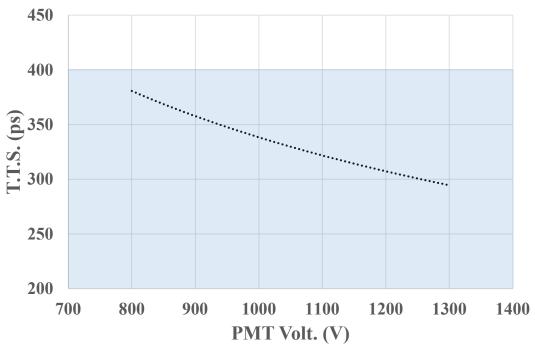


Figure 4: Transit time spread with taper ratio





Magnetic field characteristics

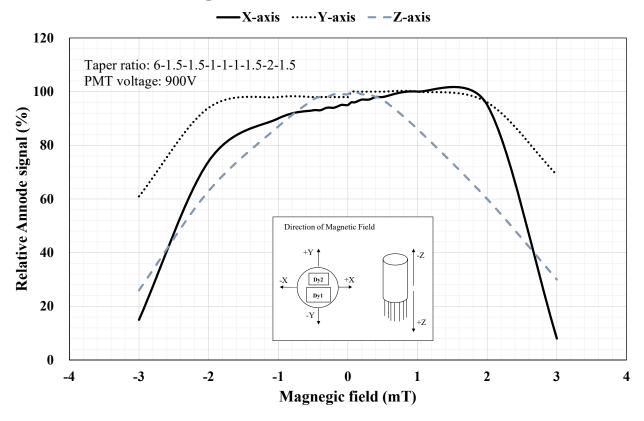


Figure 5: Magnetic field characteristics

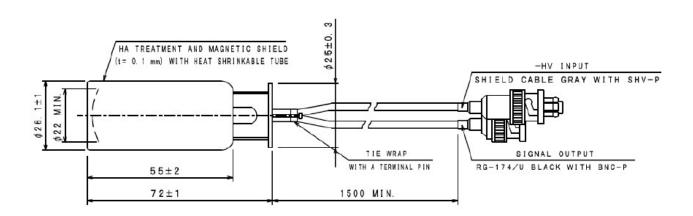


Figure 6: Dimensional Outline

UNIT : mm



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NOTES

The material in the R10560 contains Copper-Beryllium (CuBe) Alloy. Please follow the applicable regulations regarding disposal of hazardous materials and industrial wastes in your country, state, region or province.

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