PHOTOMULTIPLIER TUBE 83095 600



PRELIMINARY Mar 2004

FEATURES:

- New Low Profile, Lightweight PMT.
- 8-Stage, Head-On Type
- 3" (76mm) Round, Stiff Pin
- Excellent PHR and Stability

APPLICATIONS:

- Scintillation Counting
- Gamma Cameras (with added PET/SPECT Function)



The 83095 600 is a compact, low profile 3" (76mm) head-on PMT designed specifically for gamma camera use but is ideal for a host of general scintillation counting applications. The 83095 600 8-stage design offers excellent energy resolution and long term stability

GENERAL

	Parameter	Value	Unit						
Spectral Response		300 to 660	nm						
Wavelength of Maximum Response		370	nm						
Photocathode	Material	Bialkali							
Window Material and Cross Section		B270 Glass or Equivalent. Plano-plano.							
Dynode	Structure	Box and Grid / Linear							
	Number of Stages	8							

Maximum Ratings (Absolute Maximum Values)

	Parameter	Value	Unit
Supply Voltage	Between Anode and Cathode	1500	Vdc
Average Anode Curren	t	0.1	mA
Ambient Temperature		- 40 to + 70	С

Characteristics (at 25 °C)

	Parameter	Min.	Тур.	Max.	Unit		
Cathode Sensitivity	Blue (with CS-5-58 filter)	8.6	11.3		µA/Im-b		
	Quantum efficiency at 370nm			32.6		%	
Anode Sensitivity ¹⁾	Blue (with CS-5-58 filter)			0.9		A/Im-b	
Current Amplification ¹⁾			88500				
Anode Dark Current (after		3.5		nA			
Pulse Height Resolution (with 3 x 3 Inch Nal(TI). Co-57) ¹⁾				8.5	9.2	%	
	Anode Pulse Rise Time	Anode Pulse Rise Time				ns	
Time Response ¹⁾	Electron Transit Time			TBD		ns	
	Transit Time Spread (T.T.S.)	FWHM		TBD		ns	
		FWTM		TBD		ns	

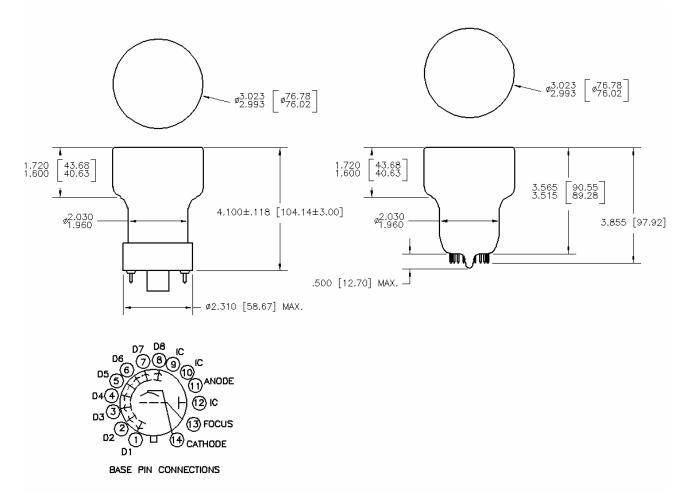
1) Measured with the condition shown in Table 1 except where noted.

Table 1

VOLTAGE DISTRIBUTION RATIO AND SUPPLY VOLTAGE (+1000 Volts)

Electrodes	K	F		Dy1	Dy 2		Dy 3	Dy 4	y	Dy 5	Dy 6	Dy 7	I	Dy 8	Ρ
Ratio		1	1	1 1		1	1		1	1	1	1		1	
Supply Volta	, I	< : Cathe	ode	F	Foc	us	D	y : Dyr	node	P:A	١no	de			





Accessories:

Socket Connector

Available upon request.

HV Power Supply

Bench: PF1053 Modular: PF1041

Magnetic Shield

Standard and custom MU-Metal shields available.

Packaging & Electronics:

Engineering will entertain custom designs for packaging, VDNs, Electronics, Integrated Units, Mounted Circuit Boards, etc.

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