

TENTATIVE DATA
Dec 2001

**New Low Profile Photomultiplier Tubes
For Scintillation Counting, Especially For
Gamma Cameras (with added PET/SPECT Function)
Superior PHR, Fast Time Response,
1" (25.4 mm) Round, 10 Stages, Head-on Type**

GENERAL

Parameter		Value	Unit
Spectral Response		300 to 660	nm
Wavelength of Maximum Response		370	nm
Photocathode	Material	Bialkali	--
Window Material		Corning 7056 Glass or equivalent	--
Dynode	Structure	In-line linearly focused	--
	Number of Stages	10	--

Maximum Ratings (Absolute Maximum Values)

Parameter		Value	Unit
Supply Voltage	Between Anode and Cathode	1800	Vdc
Average Anode Current		0.2	mA
Ambient Temperature		- 40 to + 70	C

Characteristics (at 25 °C)

Parameter		Min.	Typ.	Max.	Unit	
Cathode Sensitivity	Blue (with CS-5-58 filter)	7.8	9.1	--	μA/lm-b	
	Quantum efficiency at 370nm	--	32	--	%	
Anode Sensitivity ¹⁾	Blue (with CS-5-58 filter)		300	--	A/lm-b	
Current Amplification ¹⁾		--	3.4x10E7	--	--	
Anode Dark Current (after 30min) ¹⁾		--	50	1000	nA	
Pulse Height Resolution (with 1 x 1 Inch Bi4Ge3O12 crystal. Na-22) ¹⁾		--	14.6	18.2	%	
Time Response ¹⁾	Anode Pulse Rise Time		--	2.2	--	ns
	Electron Transit Time		--	22	--	ns
	Transit Time Spread (T.T.S.)	FWHM	--	TBD	--	ns
FWTM		--	TBD	--	ns	

¹⁾ Measured with the condition shown in Table 1.

Table 1
VOLTAGE DISTRIBUTION RATIO AND SUPPLY VOLTAGE (+1500 Volts)

Electrodes	K	Dy1	Dy 2	Dy 3	Dy 4	Dy 5	Dy 6	Dy 7	Dy 8	Dy 9	Dy 10	P
Ratio	3	1	1.5	1	1	1	1	1	1	1	1	1

Supply Voltage : 1500Vdc, K : Cathode, Dy : Dynode P : Anode

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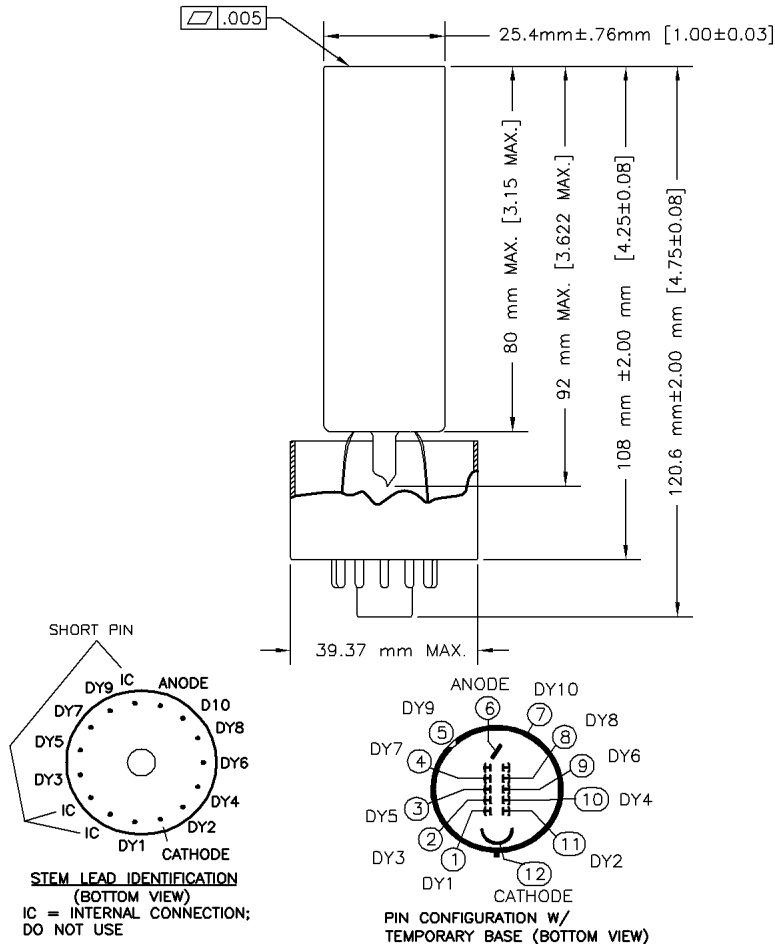
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83112 100/ DEC 2001

**Burle 83112-100 Low Profile Photomultiplier Tubes
For Scintillation Counting, Especially For
Gamma Cameras (with added PET/SPECT Function)
Outline Drawing 83112-100**



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