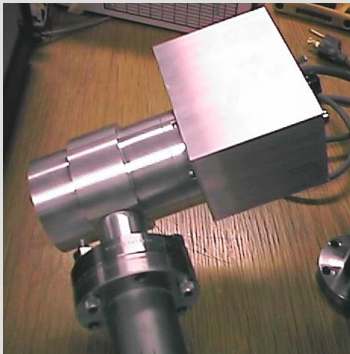


Model No:

CsI-PMT-L



Description:

This is a VUV CsI Photomultiplier detector. This product has a magnesium fluoride and can be mounted directly onto a vacuum system with a 2.75" CF flange or similar adapter. This PMT has >15 % peak quantum efficiency and is configured for easy attachment to a High Vacuum system. The system is supplied with a high voltage power supply. It may also be supplied with an optional amplifier. The high voltage may be adjusted with an externally adjustable trimpot .

The PMT can be interfaced to the vacuum chamber using Resonance's 1 in 20 tpi couplings, CF or other flanging systems. For maximum response no window is placed in front of the PMT, which is in a vacuum housing. An optional Nitrogen purge assembly is available with internal window if removal from the vacuum chamber without breaking vacuum is required.

Electrical /Optical Specifications:

specification	Minimum	Typical	maximum	units
Anode Supply Voltage	400	1000	1250	Vdc
Spectral Response	115	130	195	nm
Peak wavelength	-	127	-	nm
Photo-cathode area	-	1.4 h x 0.8 w	-	cm.
Peak Anode current	-	-	1,000	uA
Average Anode current	-	-	100	uA
Luminous sensitivity	-	Solar blind	-	uA/lm
Radiant sensitivity for 127 nm	15	26	30	mA/W
Radiant sensitivity for 254 nm	-	.0	0.01	mA/W
Radiant sensitivity for peak point	-	26	-	mA/W
Temperature range	10	-	45	° C
Current amplification	-	1.2 x 10 ⁶	-	
Dark Current after 30 min	-	1	-	nA

Nomenclature	Description	Connector type
Power	120 V AC 50 or 50 hz	Cord and plug supplied
Signal output	Output signal current	BNC type

Dimension	(See diagram on next page)	Value	Unit
A	Max. housing dia.	2.75	Inches
B	Max. height	6.5	Inches
C	Bottom housing width	4.5	Inches
D	Cathode width	0.8	cm.
E	Cathode height	1.4	cm.
F	Bottom housing depth	3.5	Inches
Materials			
Window		Magnesium Fluoride	
Body		Aluminum	
Vacuum Adapters		Stainless Steel	

Mechanical Layout:

