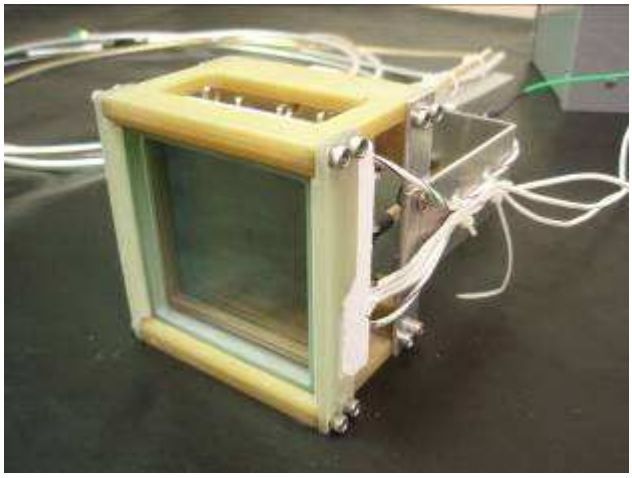
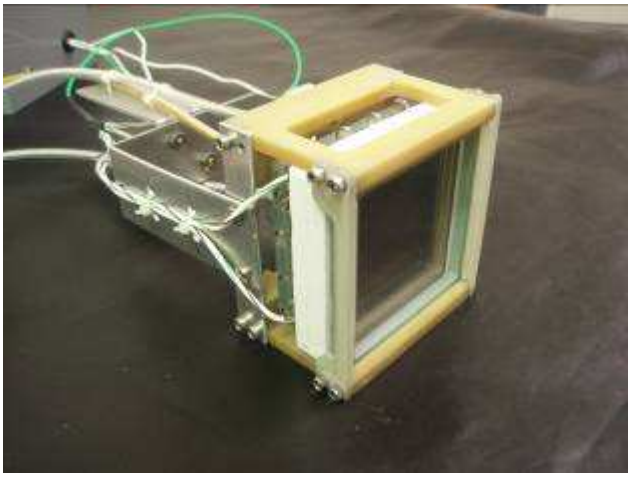
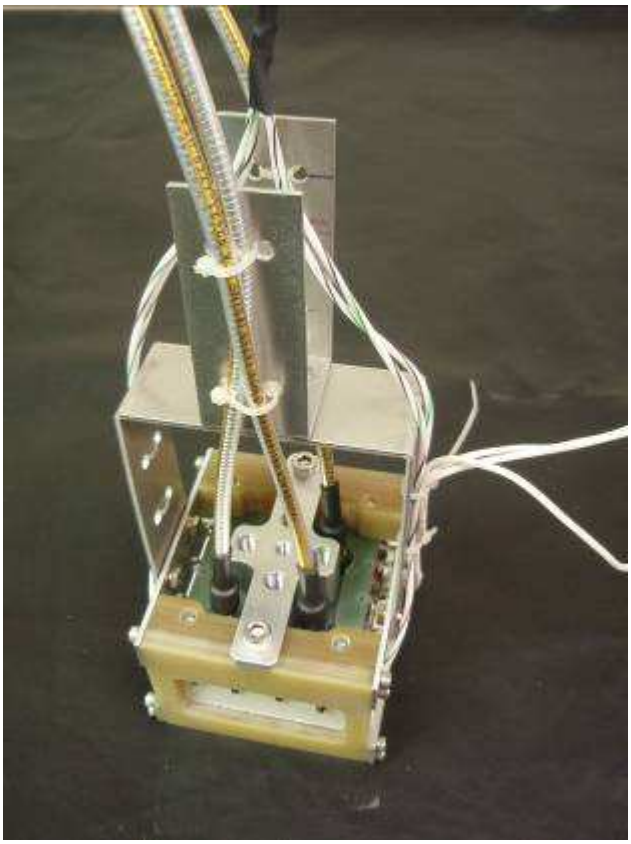
November 12, 2007

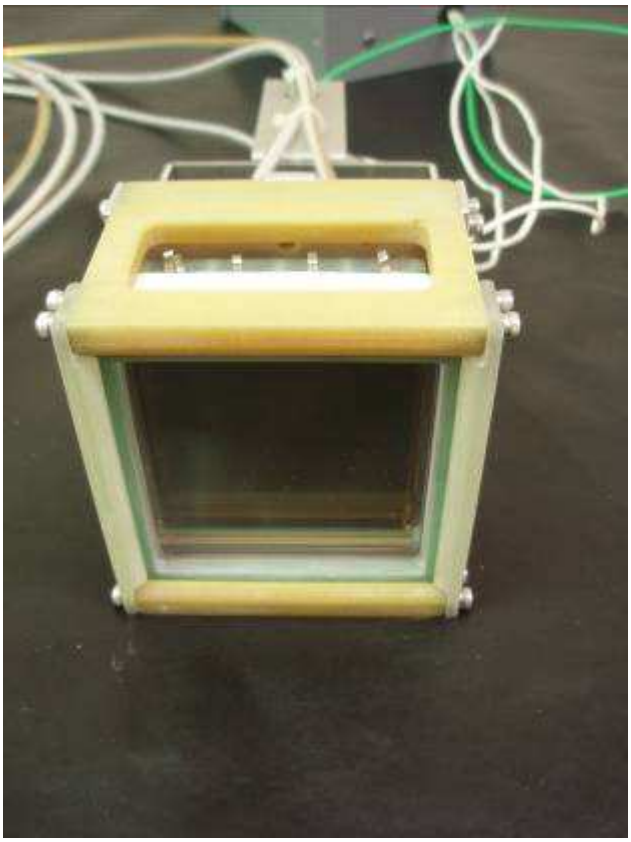
Mark-1

Model #: 85022-800 rev. B
SN: 7300452





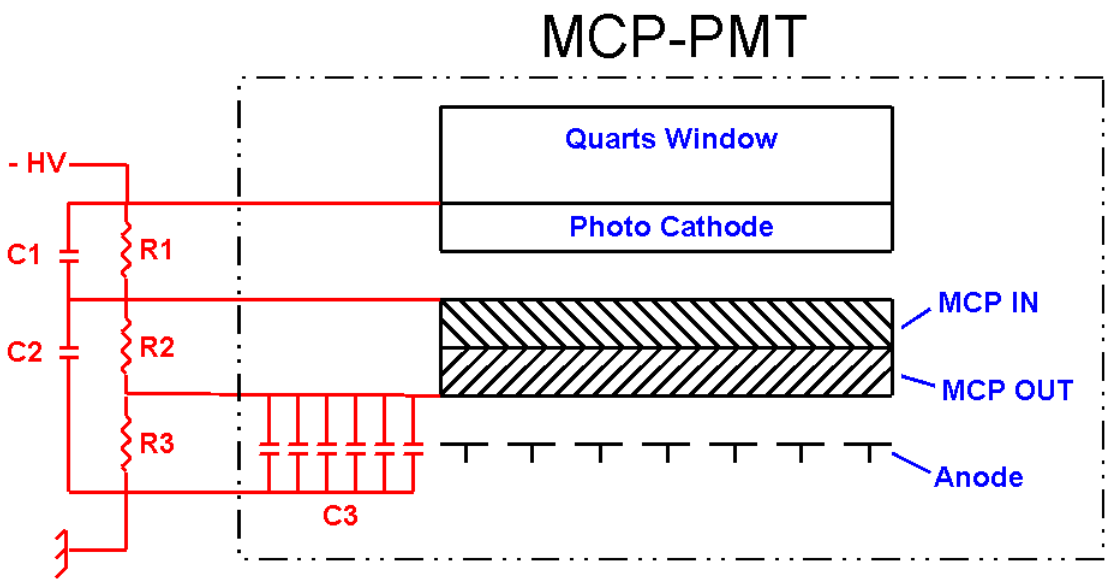




Physical Specs:

Pore Diameter (um)	10
Pore Length:Diameter	
MCP design	Chevron
Pore Angle (from vertical)	
# of Anodes	1024
Anode Array	32 x 32
Anode Size (mm)	1.1 x 1.1
Anode Pitch (mm)	1.6
Window Material	Quartz
Window Thickness (mm)	
Cathode - MCP Gap (mm)	
MCP - Anode Gap (mm)	

Schematic w/ resistor chain:



C1: 4.7nF R1: 0.5MΩ ΔV (PC-MCP IN): **

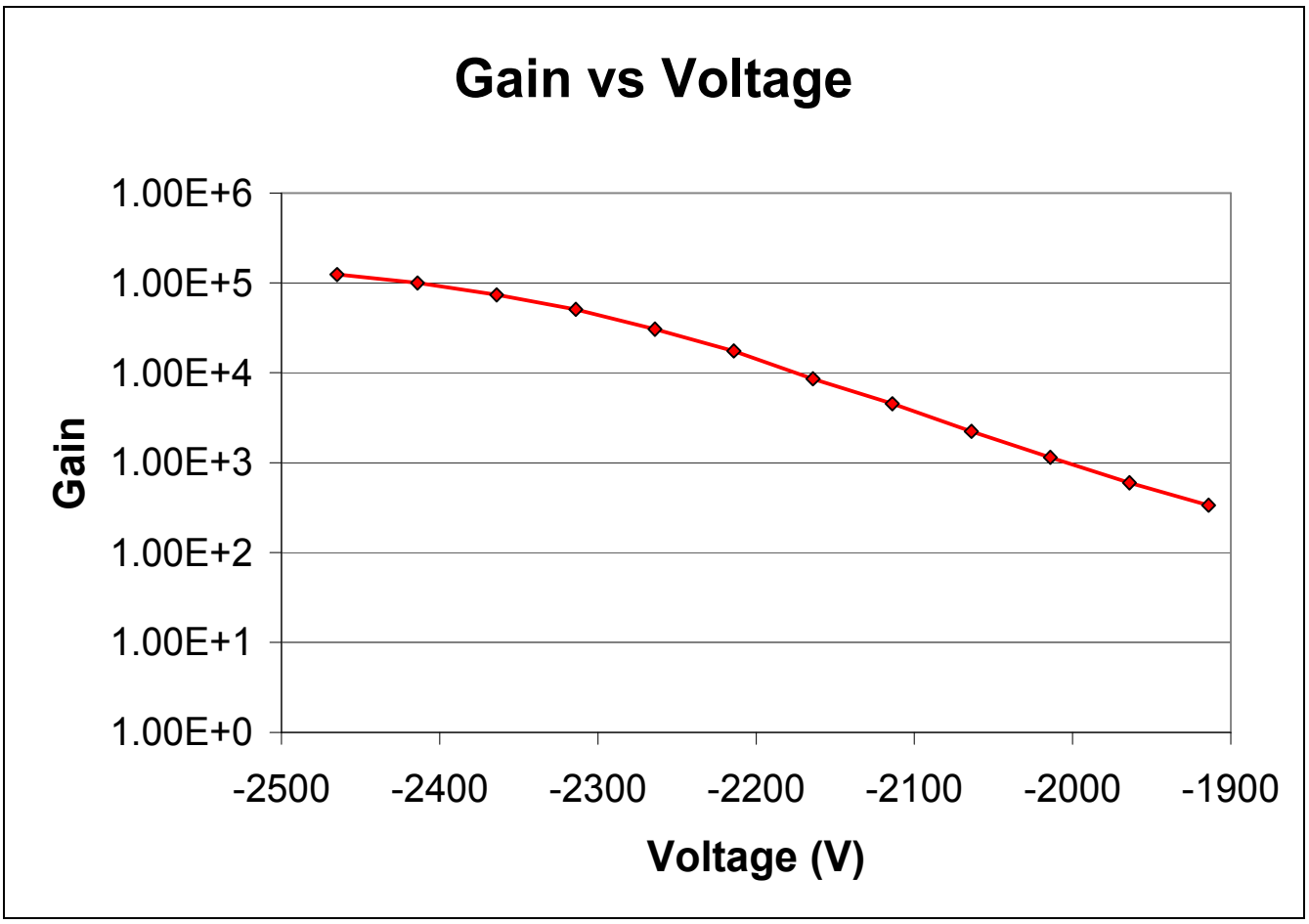
C2: 4.7nF R2: 5.0MΩ ΔV (MCP IN-MCP OUT): **

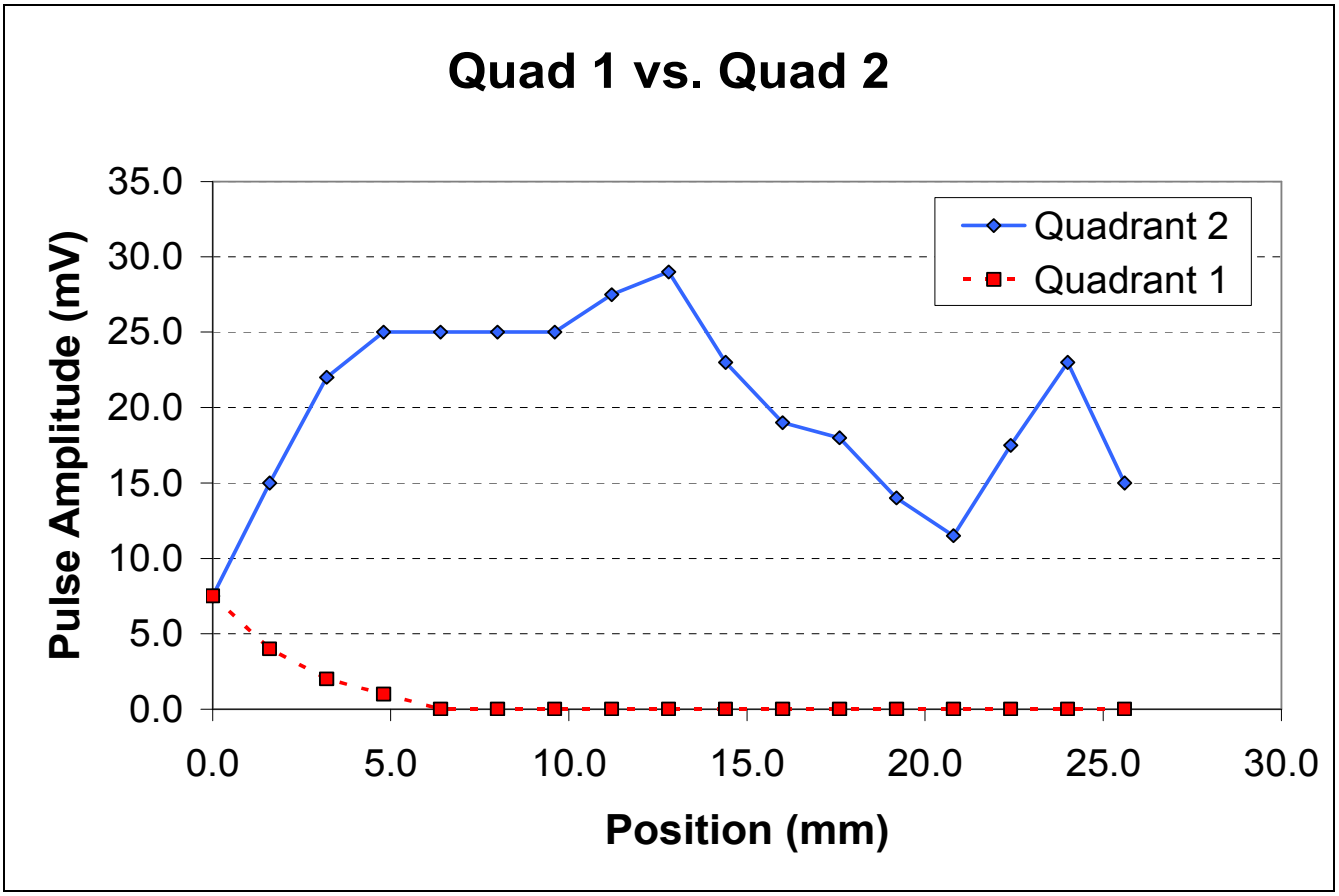
C3: 4.7nF* R3: 0.5MΩ ΔV (MCP OUT-ANODE): **

*Each quadrant has 6 **At 2.0kV

Performance:

Spectral Response (nm)	
Maximum Response (nm)	
Q.E. At Maximum Response	





Capacitance with Equal Time Anode:

Tang's Estimation	188pF
RC time constant of pulse decay	160pF
Reflection Coefficient (5ns rise)	131pF
Reflection Coefficient (4ns rise)	105pF
Capacitance Meter	151pF

Timing vs. Npe (at some good gain):