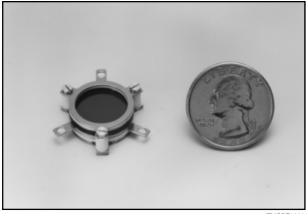


WIDE DYNAMIC RANGE MCP ASSEMBLY FOR HELIUM LEAK DETECTOR F4655-01

Compact MCP assembly optimized for helium leak detector and mass spectrometer using a wide dynamic range MCP

The F4655-01 is a very compact MCP assembly developed for helium leak detector as well as mass spectrometer. It uses a wide dynamic range MCP for extracting a high output current of $10\mu A^*$ with high stability.

* : At an MCP resistance of $20M\Omega$



APPLICATIONS

Helium leak detector

Mass spectrometer

TMCPF0089

FEATURES

- Wide dynamic range
- Compact and lightweight
- Good cost performance

SPECIFICATIONS

GENERAL

Parameter	Value	Unit
Assembly Outer Diameter	30.0	mm
Effective Diameter	14.5	mm
Maximum Height	8.5	mm
MCP Channel Diameter	12	μm
Number of MCP Stages	1 🛞	-

Two-stage MCP type is also available on request.

MAXIMUM RATINGS (Absolute Values)

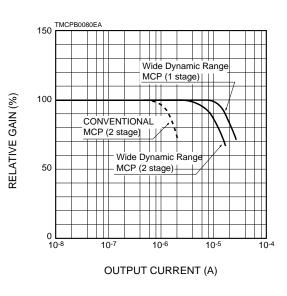
1	kV
0.5	kV
MCP-In: -1.5 MCP-Out: -0.5 Anode: GND	kV
6.7×10 ⁻⁴ (5×10 ⁻⁶)	Pa (Torr)
- ®	°C
- ®	h
- B	Pa (Torr)
	MCP-In: -1.5 MCP-Out: -0.5 Anode: GND 6.7×10 ⁴ (5×10 ⁶) - ® - ®

Baking cannot be performed.

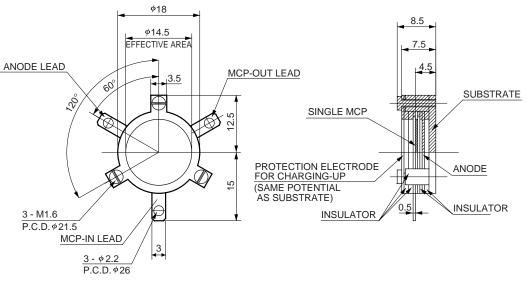
CHARACTERISTICS (at 1.3×10⁻⁴ Pa (1×10⁻⁶ Torr), Ta=+25°C)

Gain	1×10 ⁴	-
Plate Resistance	5 to 50	MΩ
Dark Current	0.5	pA/cm ²

Figure 1: MCP Output Linearity Characteristiscs



[Subject to local technical requirements and regulations, availability of products included in this promotional material may vary. Please consult with our sales office.] Information furnished by HAMAMATSU is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or omissions. Specifications are subject to change without notice. No patent rights are granted to any of the circuits described herein. ©1998 Hamamatsu Photonics K.K. Figure 2: Dimensional Outlines (Unit: mm)



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