# HAMAMATSU

## **ULTRA THIN MCP ASSEMBLY** WITH CENTER HOLE F6589

### **FEATURES**

- Ultra Thin Type: 2.5 mm (Max.)
  - · Detection at closed distance from samples
- Flexible Lead Out (polymide film)
  - · Easy system design with a flexible wiring
  - · Low outguessing for high vacuum operation

Parameter

• Light Weight

#### **APPLICATIONS**

#### SEM

- FIB System
- Mask Aligner
- Electron Beam Measuring System

#### **SPECIFICATIONS**



Unit

Value

	28.0	mm
	11.0	mm
	2.5	mm
	12	μm
	2	stage
	1	mm
)	4	mm
MCP-in	-0.4 to +0.4	kV
Anode	+2.4 (Max.)	
	2.0	kV
	0.4	kV
	2.4	kV
	Less than 6.7 $ imes$ 10 $^{-4}$ (5 $ imes$ 10 $^{-6}$ )	Pa (Torr)
	-50 to +70	°C
	200	°C
	8	hours
	Less than $6.7 \times 10^{-4}$ (5 $\times$ 10 <sup>-6</sup> )	Pa (Torr)
	MCP-in Anode	28.0   11.0   2.5   12   2   1   2   1   4   MCP-in   -0.4 to +0.4   Anode   +2.4 (Max.)   20   2.0   3.1   3.2   3.3   3.4   3.5   3.6   3.6   3.6   3.7   3.8   3.8   3.8   3.10   3.10   3.10   3.10

• Not allowed to be baked.

#### **CHARACTERISTICS**

Gain at 1.8kV	$1 \times 10^{6}$ Min.	-
Plate Resistance	50 to 200	MΩ/MCP
Maximum Linear Output	7% of strip current under uniform input into whole MCP effective area	μΑ
DC Dark Current at 2kV	1 × 10 <sup>-10</sup>	A
Dark Count at 2kV	3	cps

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## **ULTRA THIN MCP ASSEMBLY WITH CENTER HOLE F6589**

#### Figure 1: Merit of Ultra Thin MCP Assembly with Center Hole



Figure 2: Dimensional Outline (Unit: mm)



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# HAMAMATSU

#### HAMAMATSU PHOTONICS K.K., Electron Tube Center

314-5, Shimokanzo, Toyooka-village, Iwata-gun, Shizuoka-ken, 438-0193, Japan, Telephone: (81)539/62-5248, Fax: (81)539/62-2205 *U.S.A.*: Hamamatsu Corporation: 360 Foothill Road, Bridgewater, N.J. 08807-0910, U.S.A., Telephone: (1)908-231-0960, Fax: (1)908-231-1218 *Germany*: Hamamatsu Photonics Deutschland GmbH: Arzbergerstr. 10, De3211 Herrsching am Ammersee, Germany, Telephone: (4)9152-375-0, Fax: (49)8152-2658 *France*: Hamamatsu Photonics France S.A.R.L.: 8, Rue du Saule Trapu, Parc du Moulin de Massy, 91822 Massy Cedex, France, Telephone: (33)1 69 53 71 00, Fax: (33)1 69 53 71 00 *United Kingdom*: Hamamatsu Photonics VK Limited: Lough Point, 2 Gladbeck Way, Windmill Hill, Enfield, Middlesex ENZ 7JA, United Kingdom, Telephone: (44)181-367-3560, Fax: (44)181-367-3584 *North Europe*: Hamamatsu Photonics Norden AB: Färögatan 7, S-164-40 Kista, Sweden, Telephone: (39)2-935 81 733, Fax: (39)2-935 81 741

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