

**Thickness: 6 mm, Can be stacked side-by-side  
for Multi-collector Mass Spectrometry**

**SPECIFICATIONS**

**GENERAL**

Parameter	Description / Value	Unit
Input Aperture Diameter	8 × 1	mm
Dynode Structure	Linear focused	—
Number of Dynode Stages	18	—
First Dynode Material	Cu-BeO	—
Total Built-in Resistance	21	MΩ
Operating Ambient Temperature	-30 to +50	°C
Storage Temperature	-80 to +50	°C
Polarity of Detected Ions	Positive	—

**MAXIMUM RATINGS**

Parameter	Value	Unit
Anode to First Dynode Voltage	-2500	V
Anode to Last Dynode Voltage	350	V
Operating Vacuum Level	1 × 10 <sup>-2</sup>	Pa
Bake-Out Temperature (at 5 × 10 <sup>-3</sup> Pa)	350	°C
Average Anode Current <sup>(A)</sup>	10	μA
Operating Gain	1 × 10 <sup>8</sup>	—

**CHARACTERISTICS**

Parameter	Value	Unit
Recommended Supply Voltage	-1800	V
Gain (Typ.)	1 × 10 <sup>7</sup>	—
DC Linearity (Typ.)	5	μA
Dark Current (Max.)	1	pA
Rise Time (Typ.)	3.5	ns
Anode to All Other Electrode Capacitance	4.0	pF

**NOTE:** <sup>(A)</sup> Averaged over any interval of 30 seconds maximum.

Figure 2: Example of Measurement configuration

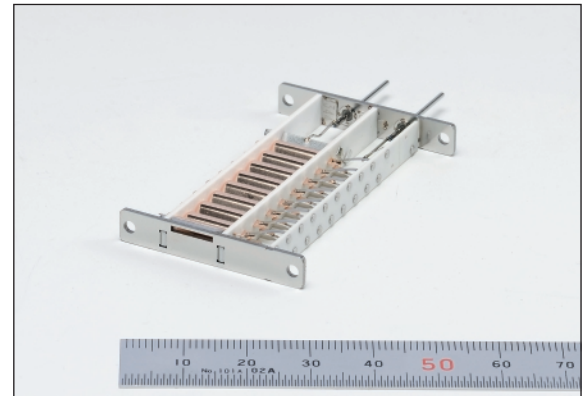
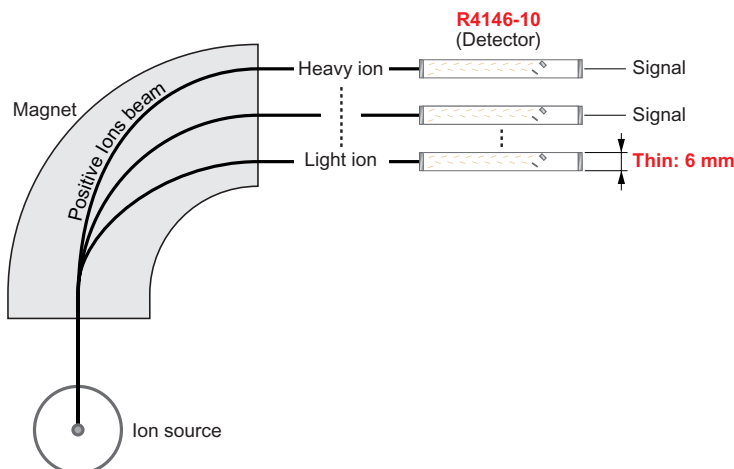
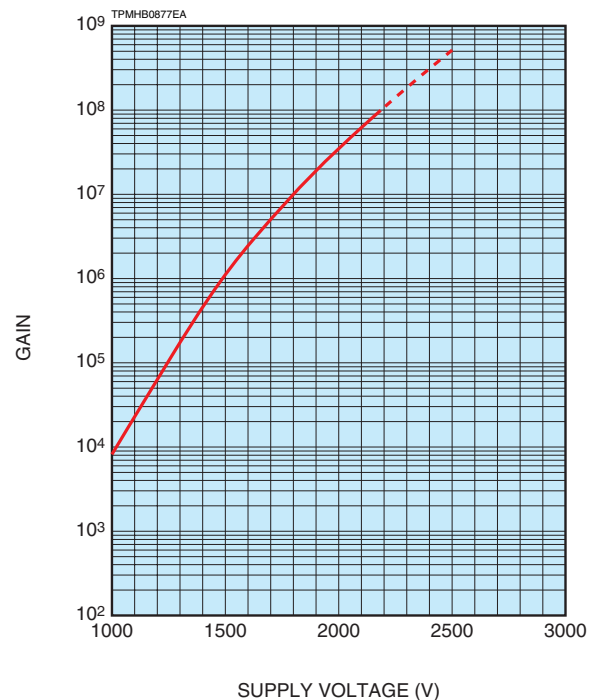


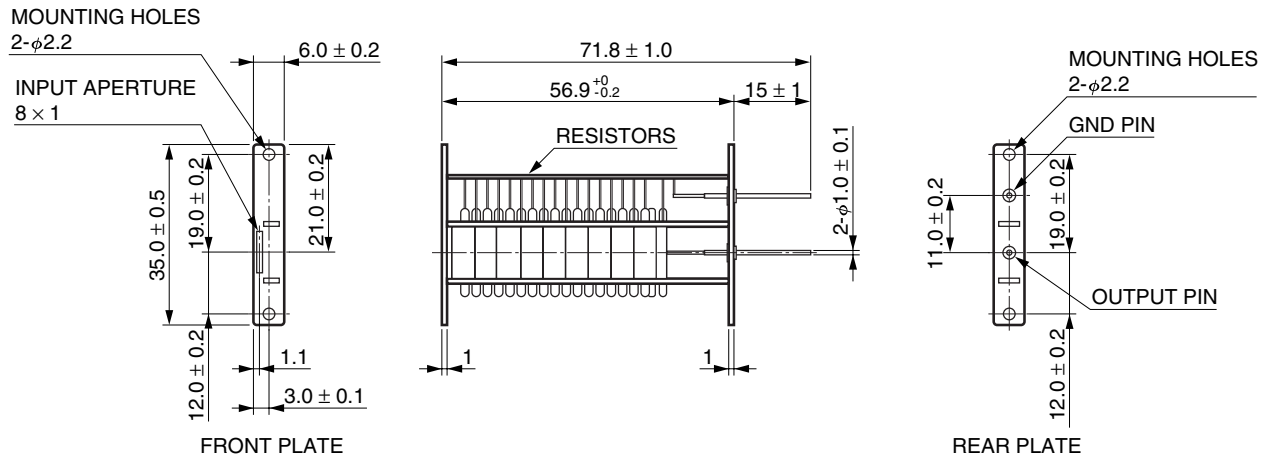
Figure 1: Typical Gain



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# ELECTRON MULTIPLIER R4146-10

Figure 3: Dimensional Outline (Unit: mm)



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