

SPECIFICATION

MICROCHANNEL PLATE WITH SOLID BORDER MCP B 25-6Y

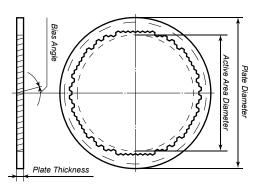
Microchannel Plate is intended for operation in vacuum inside Image Intensifier Tubes as a multi-channel secondary-electron multiplier of electron images.

ALTERNATIVE SPECIFICATION MAY BE MADE ON CUSTOMER'S ORDER.



SIZE-SHAPE FACTORS

PARAMETER	DIMENSION	VALUE
Plate Diameter	mm	32.8
Active Area Diameter	mm	min. 26
Plate Thickness	mm	0.3
Channel Diameter	μm	6
Center-to-Center Spacing	μm	8
Bias Angle	degree	5



ELECTRICAL & IMAGE CHARACTERISTICS

PARAMETER	DIMENSION	VALUE
Electron Gain at 800 V	-	1000
Resistance	x10 8 Ohms	1 - 3
Minimum Limiting Resolution	lp/mm	75
Maximum Dark Current Density	×10 ⁻¹⁴ A/cm ²	5
Noise factor, typical value	-	2.5
Open Area Ratio	%	min. 59

MTTF (mean time to failure): not less than 7500 hrs.

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	LIMITING VALUE
Operating Voltage	1000 V
Field Strength	10 KV/mm
Input Current Density	1×10 ⁻⁸ A/cm ²
Output Current Density	4×10 ⁻⁷ A/cm ²

VACUUM BAKEOUT LIMITING TEMPERATURE: 440°C during not more than 6 hrs. at 5×10⁻⁶ torr.

WARRANTIES

Shelf-life: the MCP shall be stored in container provided by the manufacturer during 6 months, in vacuum (1.33×10⁻³ Pa) during 1 year or 15 years as a part of an image intensifier tube. The shelf-life is to be calculated from the acceptance date of manufacturer's quality inspection, and in a case of reacceptance from the reacceptance date.