BASPIK
VLADIKAVKAZ
TECHNOLOGY CENTRE

SPECIFICATION

MICROCHANNEL PLATE WITH SOLID BORDER MCP B 25-6

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

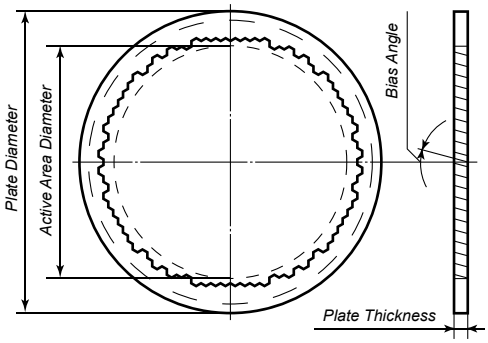
ALTERNATIVE SPECIFICATION MAY BE MADE ON CUSTOMER'S ORDER.

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 850 V	-	1000
Resistance	x10 ^{8} Ohms	1 - 3
Minimum Limiting Resolution	lp/mm	75
Maximum Dark Current Density	$\times 10^{-14}$ 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.*

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