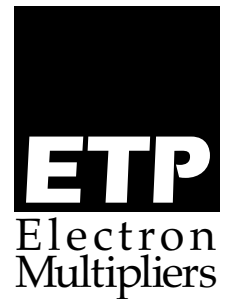


DM133B

Detector for RGA Applications with Incorporated Faraday Cup

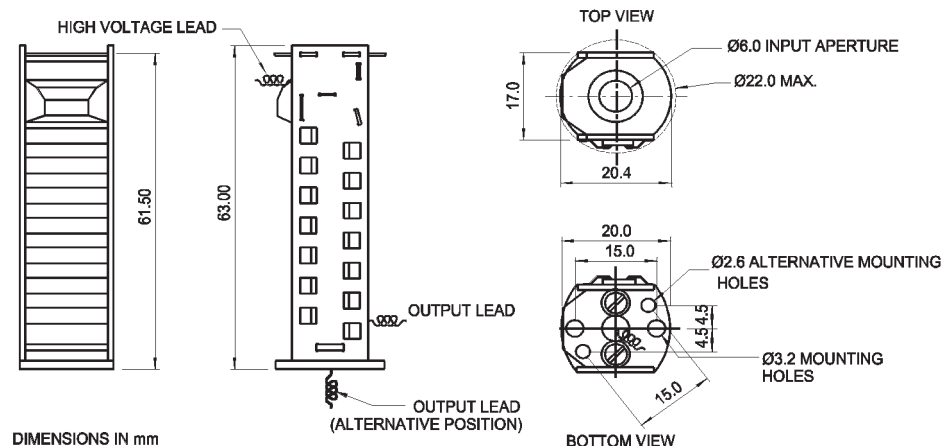


The DM133B electron multiplier was developed specifically for quadrupole residual gas analyzer (RGA) applications where compact design is combined with high sensitivity and simple operation. High voltage is applied to the detector for high sensitivity, high gain operation. For unity gain, high ion-current operation the high voltage is turned off and the input ions are collected in a faraday cup. The faraday cup and electron multiplier output both lead to the same connection so that changing operating modes is accomplished simply by switching the high voltage supply.

ETP electron multipliers incorporate totally air-stable "ACTIVE FILM" materials in a discrete-dynode multiplier design to achieve exceptionally sensitive ion detection with long operating life and excellent air stability.

- HIGH SENSITIVITY
- LOW NOISE
- HIGH GAIN
- LONG LIFE
- FITS WITHIN 22 MM DIAMETER
- INTERNAL FARADAY CUP
- STABLE IN AIR
- BAKEABLE TO 350°C

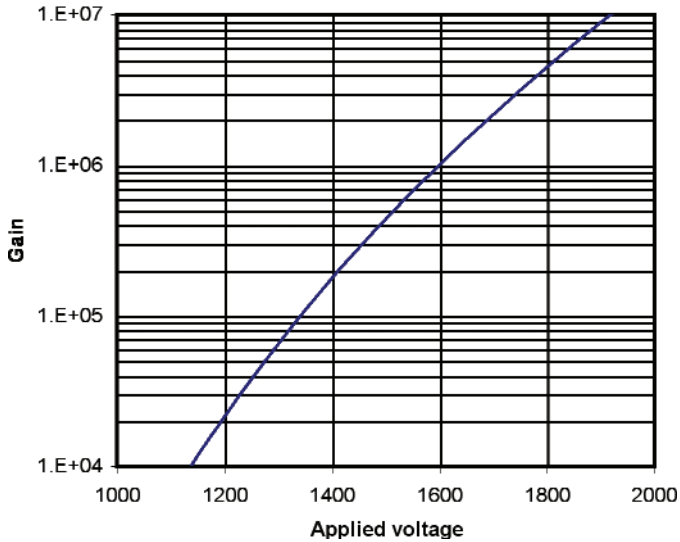
MECHANICAL DETAILS



DM133B

Detector for RGA Applications with Incorporated Faraday Cup

Typical Gain Curve



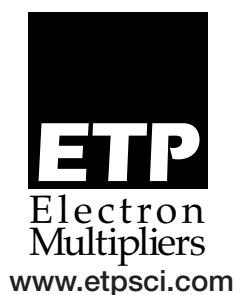
Specifications

Typical voltage to achieve 1x10⁵ gain
Maximum Dark Current at 2.5kV
Maximum recommended applied voltage
Sensitive area
Maximum envelope radius
Maximum bake-out temperature in vacuum
Number of dynodes
Total internal resistance (HV lead to ground)

DM268

1.3 kV
<1 picoamp
3 kV
6.0 mm diameter
22 mm
350 °C
12
23 M*

DM269



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