

## Installation Notes

# Model 14150 and 14150H ACTIVE FILM Multipliers

1. Please note: the multipliers are shipped with a protective cover over the input aperture. **Carefully REMOVE COVER during installation and avoid contact with the underlying delicate aperture grid.**
2. There are 3 electrical connections to the multiplier:
  - i. -HV,
  - ii. Signal Output and,
  - iii. Earth via the mounting bracket (refer diagram below)

### ADDITIONAL NOTES FOR THE INSTALLATION AND OPERATION OF HIGH CURRENT 14150H VERSION ACTIVE FILM MULTIPLIERS

1. The high voltage supply used in conjunction with a high current ("H") version Active Film Multiplier must be capable of delivering 1 to 1.5mA of current to supply the multipliers low internal resistance.
2. Because an "H" version multiplier dissipates several watts of power a thermally conductive path must be maintained between the multiplier's mounting and the chamber walls.
3. To avoid noise due to out-gassing of absorbed water vapour, it is recommended that "H" version multipliers be exposed to vacuum for 16 hours before initial operation and the applied voltage kept below 2 kV for the initial two hours of operation after exposure to air.

