7505M Series

CERAMIC CHANNEL ELECTRON MULTIPLIER FOR FINNIGAN MAT ION TRAP DETECTOR (ITD 700,800), ITS-40, AND VARIAN SATURN MASS SPECTROMETERS



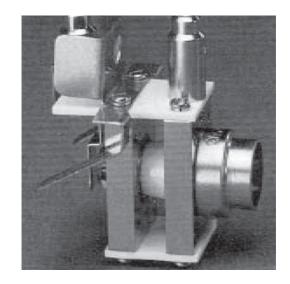
7505M, 7505MH1

Features

- Snap-out/snap-in mounting hardware permits fast replacement
- Background signal less than instrument baseline noise means microphonics are virtually eliminated
- Capable of high output current greater than 10uA
- Vacuum bakeble at 350°C
- Operable to 7x10⁻⁴ torr (He) and 200°C

Benefits

- Extended multiplier life
- · Increased sensitivity
- Gain tailored for use in Finnigan MAT Ion Detector (ITD 700,800), ITS-40, and Varian Saturn mass spectrometers
- Capable of absorbing high thermal and physical shock



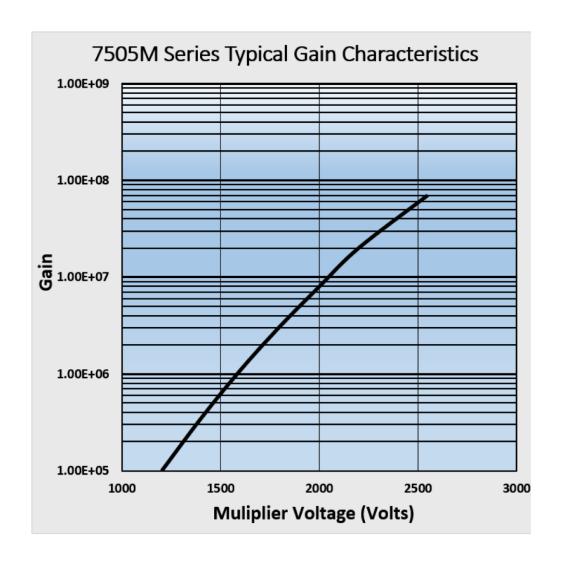
The Model 7505MH1 is Exelis' channel electron multiplier assembly (CEM) used in Finnigan MAT's Ion Trap Detector (ITD 700,800), ITS-40, and Varian Saturn mass spectrometers. The monolithic ceramic construction and advanced ion-optical design significantly extend multiplier life and enhance sensitivity. Its exclusive snap-out/snap-in mounting both speeds multiplier replacement and assures perfect alignment.

SPECIFICATIONS: 7505M SERIES

OPERATING PARAMETERS	
Supply Voltage	Max. 3000 Vdc
Vacuum	Max. 7x10 ⁻⁴ torr (He)
Dynode Power Dissipation	Max 150 mW
Average Anode Current	Max 15uA
Resistance @ 10Vdc: Total (R _T) Anode Bias (R _A)	Min. 60, Max 150 M Ω Min. 3, Max 7 %RT
Thermal Coefficient of Resistance: (TCR _{RT} , TCR _{RA})	Max -0.6%/°C
Gain ⁽²⁾ (typ; see fig. 1)	1200 Vdc 1500 Vdc 1800 Vdc 1x10 ⁵ 6x10 ⁵ 5x10 ⁶
Background Signal: Output Dark Pulses (max) Output Dark Current (typ)	.05 .05 .05 counts/sec 8x10 ⁻¹⁶ 3x10 ⁻¹⁵ 4x10 ⁻¹⁴ amps

Notes: (1) For operation at elevated ambient temperatures, Harris can provide derating information. (2) Values specified for electron gain are those existing at the time of shipment. Gain typically decreases with use. Periodic supply voltage increases are required to maintain the gain above a specific level. Multipliers are shipped in sealed bags containing dry nitrogen. It is recommended that the seal not be broken until use.

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About Harris Corporation

Harris Corporation is a leading technology innovator, solving our customers' toughest mission-critical challenges by providing solutions that connect, inform and protect. Harris supports customers in more than 125 countries, has approximately \$8 billion in annual revenue and 22,000 employees worldwide. The company is organized into four business segments: Communication Systems, Space and Intelligence Systems, Electronic Systems, and Critical Networks.

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