

## 7535M Series

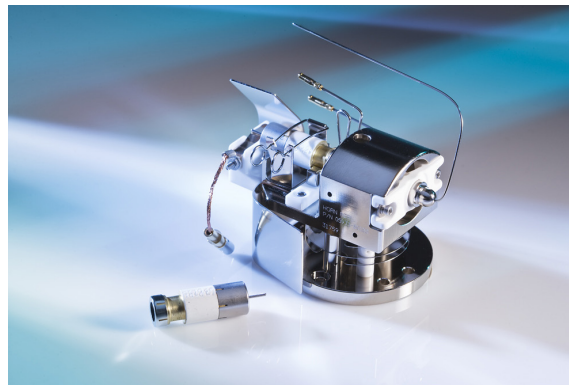
# CERAMIC CHANNEL ELECTRON MULTIPLIER FOR HP 5973MSD MASS SPECTROMETERS



## 7535M, 7535MH5 7596M, 7596MH5

### 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 10 $\mu$ A
- Vacuum bakeable at 350°C
- Operable to 7x10<sup>-4</sup> torr (He) and 200°C



### Benefits

- Extended multiplier life
- Increased sensitivity
- Increased linear dynamic range
- Capable of absorbing high thermal and physical shock

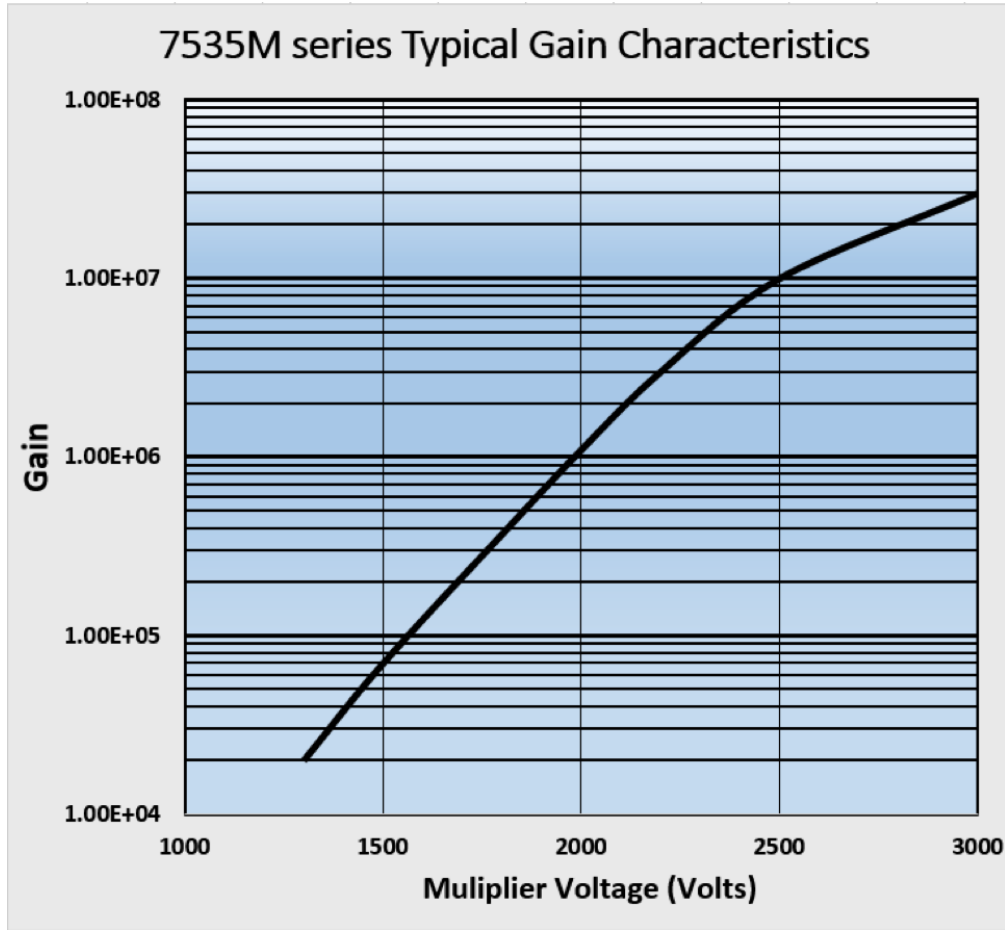
The Model 7535MH5 and 7596MH5 are Harris channel electron multiplier (CEM) assembly used in Agilent 5973 MSD mass spectrometers. The monolithic ceramic construction and advanced ion-optical design significantly extend multiplier life, enhance sensitivity, and offer greater linear dynamic range. Its exclusive snap-out/snap-in mounting both speeds multiplier replacement and assures perfect alignment.

### SPECIFICATIONS: 7535M SERIES

OPERATING PARAMETERS				
Supply Voltage	Min. 1200, Max. 3000 Vdc			
Vacuum	Max. 7x10 <sup>-4</sup> torr (He)			
CEM Power Dissipation	Max 300 mW			
Average Anode Current	Max 15 $\mu$ A			
Resistance @ 10Vdc: Total (R <sub>T</sub> )	Min. 20, Max 40 M $\Omega$			
Thermal Coefficient of Resistance: (TCR <sub>RT</sub> , TCR <sub>RA</sub> )	Max -0.6%/°C			
Gain <sup>(2)</sup> (typ; see fig. 1)	1600 Vdc 1x10 <sup>5</sup>	2300 Vdc 4x10 <sup>6</sup>	3000 Vdc 3x10 <sup>7</sup>	
Background Signal:				
Output Dark Pulses (max)	.01	.01	.01	counts/sec
Output Dark Current (typ)	3x10 <sup>-15</sup>	2.5x10 <sup>-14</sup>	5x10 <sup>-13</sup>	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.

# 7535M Series/7596M Series



#### About Harris Corporation

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