

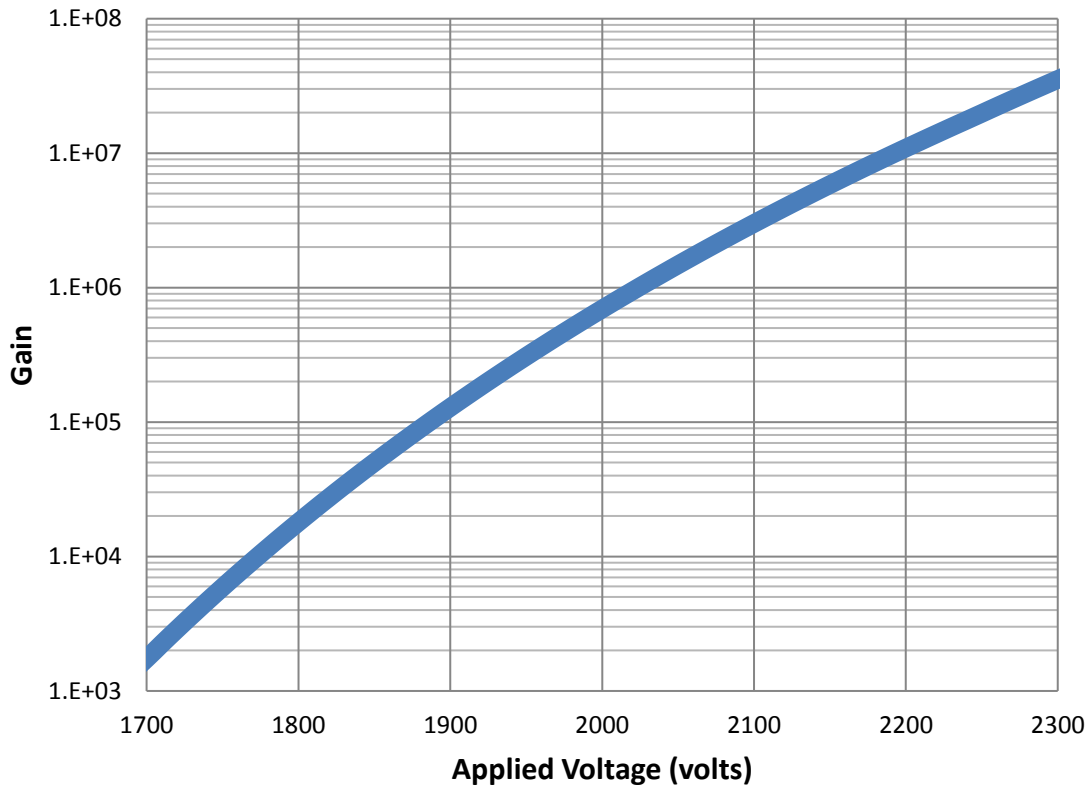
## 14924 MagneTOF™ Mini Preliminary Datasheet

### Specifications

Model Number	14924
Multiple-ion pulse width (FWHM)	≤1.5 ns
Input aperture size (nominal)	25 X 17 mm
Mechanical envelope size (nominal)	59 X 55.5 X 45 mm
Pulse linearity (typical)	500 mV into 50 Ω
Maximum sustained linear output current (typical)	5 μA
Maximum dark counts at 2600 V	50 per minute
Maximum dark current at 2600 V	1 pA
Maximum operating pressure	10 <sup>-4</sup> Torr
Long/short term storage requirements	Protect from dust and humidity
Low mass ion detection efficiency (nominal)	92%
Maximum supply current	300 μA
Typical gain at 2000 V (new detector)	1E6
Ambient temperature range for normal operation	15 to 28 °C
Operating voltage range*	~1900 V (initial) to 3500 V (aged)

\*Note: Operating a new detector at end-of-life (maximum) voltage may result in damage to the detector.

### Typical Gain Curve



## Mechanical Specification

