

<b><u>PHYSICAL CHARACTERISTICS of MCPS</u></b>	<b><u>SPECIFICATION</u></b>
Replacement Microchannel Plate Type:	Part Number 31578
Active Diameter:	40mm Minimum
Center-to-Center Spacing:	32 $\mu$ m Maximum
Pore Size:	25 $\mu$ m Nominal
Bias Angle:	12° $\pm$ 1°
Open Area Ratio:	50% Minimum
Quality Level:	Detection
<b><u>ELECTRICAL CHARACTERISTICS of DETECTOR</u></b>	<b><u>SPECIFICATION</u></b>
Electron Gain @ 2400 Volts: Maximum	1 x 10 <sup>7</sup> Minimum
Bias Current Range @ 2400 Volts:	8-79 Microamps
Resistance:	30-300 Megohms
Dark Count: @ Gain Voltage	5 (cts/sec/cm <sup>2</sup> ) Maximum
Pulse Height Distribution @ Gain Voltage:	125% Maximum
Linear Output Current Density: (Microamps/cm <sup>2</sup> )	Typically 10% of Bias Current Density

The Chevron™ detector assembly contains two Detection Quality Advanced Performance Long-Life™ Microchannel Plates and metal anode readout mounted in stainless steel hardware. The assembly is bakeable to 300°C.

Detection Quality detector assemblies are intended for use in applications where image quality is not critical. These economical devices are used as signal detectors and amplifiers and are typically used in applications such as time-of-flight mass spectrometry, residual gas analysis (RGA), or point source detectors.

