

Model HWEG-101079 Electron Gun Specification

Model HWEG-101079M: M Type

Intercepting Gridded Pierce Gun

Description	Nominal Value* (Range)
Cathode Voltage	12kV (9to15kV)
Grid Cutoff	-60V (-55 to -65V @ 12kV Typ.)
Grid Drive	+60 Volts for 1.2 A Ik (50 to 70V Typ.)
Grid Current	12% of Ik (10 to 15% Ik)
Grid Power Dissipation	1.0 Watt max.
Heater Voltage	6.3 Volts (max)
Heater Current	2.0 Amps (max)
Perveance	0.9 micropervs (0.01 to 1.4 micropervs)
Pulse Width	100 microseconds max.
Duty Cycle	0.04 max.
Beam Current, Ik	1.4 Amps

Vg/Vk approximate constant with constant perveance.
 *Values with 0.175" perveance set gap.
 See drawing #101332 for typical anode.



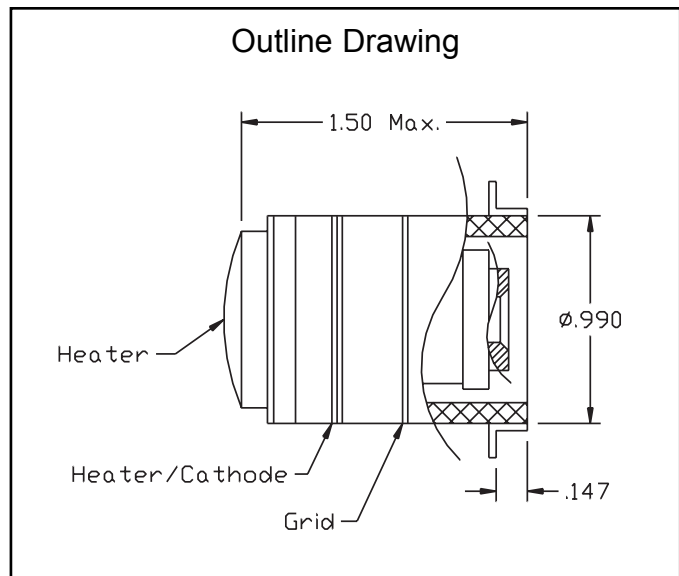
Optional 2 3/4" Conflat Flange Mount

Mechanical Specifications

Cathode Diameter	0.250 inches
Half Angle	34 degrees
Beam Minimum Diameter	0.026" nominal @ 0.4" from cathode center

Cathode Specifications

Cathode Type	Dispenser
Coating	M-Type coating
Mix	311 BaO, CaO, Al ₂ O ₃
Peak Emission Density	10 A/cm ² maximum



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