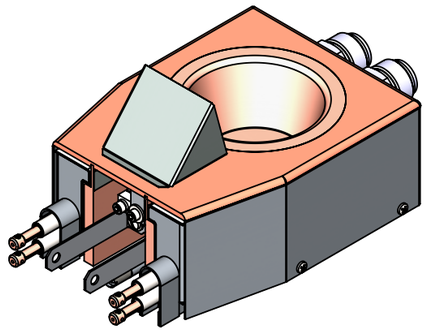

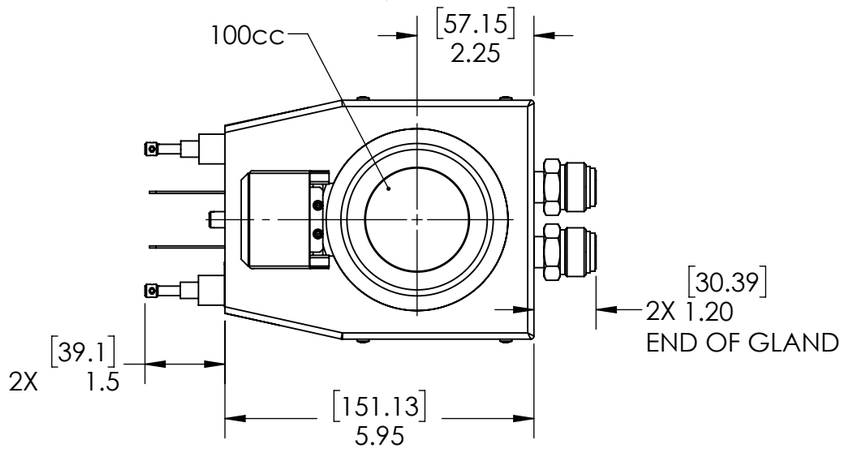

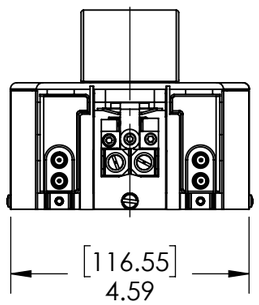

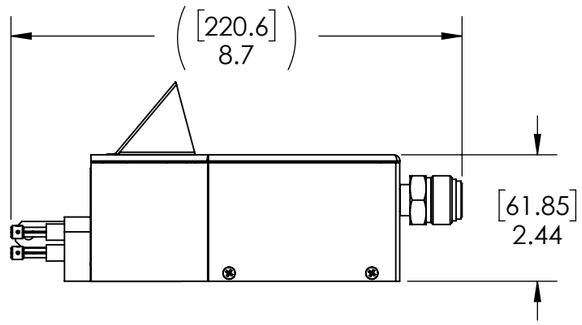

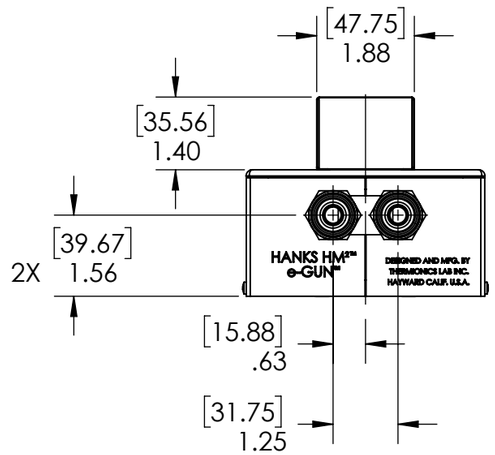

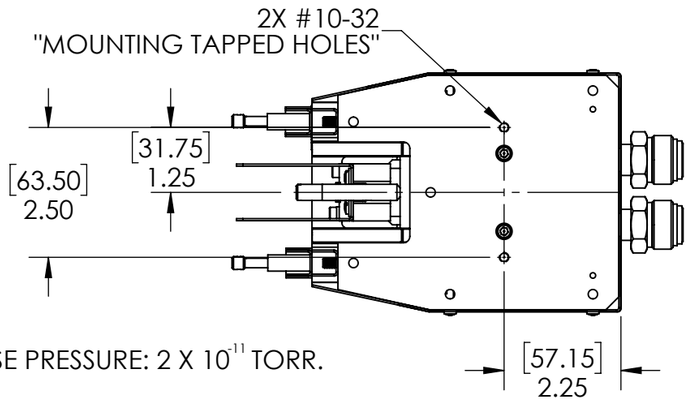

SPECIFICATIONS:
*METAL-SEALED, FULLY UHV COMPATIBLE, MEASURED BASE PRESSURE: 2 X 10^{-11} TORR.
*POWER OUTPUT: 12kW/-10kV 0 TO 1.5A
*CRUCIBLE VOLUME: 100cc
*WEIGHT: 11 lbs.
*FILAMENT: 12 VAC 60 A
*ELECTRON BEAM: 270° DEFLECTION
*BEAM SPOT SIZE: ∅.25" (APPROXIMATE)
*CRUCIBLE: OFE COPPER
*BAKEOUT TEMPERATURE: 230° (446°F)
*WATER: 3.0 gpm (FILTERED) AT 70 PSI
*MINIMUM WATER TUBE SIZE: ∅1/2"
*PRESSURE DIFFERENTIAL: 50 PSI MINIMUM
*X AND Y SWEEP (0 TO ABOVE 200 Hz)

NOTES:
1. ALL WELDS TO BE VAC. TIGHT TO 2x10^{-11} MIN. SENSITIVITY.
2. DIMENSIONS IN [X.XX] ARE IN mm.

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DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ± N/A
ANGULAR: MACH ± BEND ± .5°
ONE PLACE DECIMAL ±.1
TWO PLACE DECIMAL ±.01
THREE PLACE DECIMAL ±.005
SURFACE FINISH 63 R.M.S.

FINISH:

thermionics laboratory, inc.

DO NOT SCALE DRAWING | REVISION

thermionics laboratory inc.
3118 Depot Rd., Hayward Ca. 94545

	NAME	SIGNATURE	DATE		USED ON	NEXT ASSY.
DESIGN/ENG.						FINAL
CHK'D						
APPV'D						
MFG						
Q.A						

TITLE:
HM2(TM) e-GUN(TM)
100cc,
OUTLINE DRAWING

MATERIAL:

DWG NO. 113297 | A3

WEIGHT: ~15.2

SCALE:1:3 | SHEET 1 OF 1