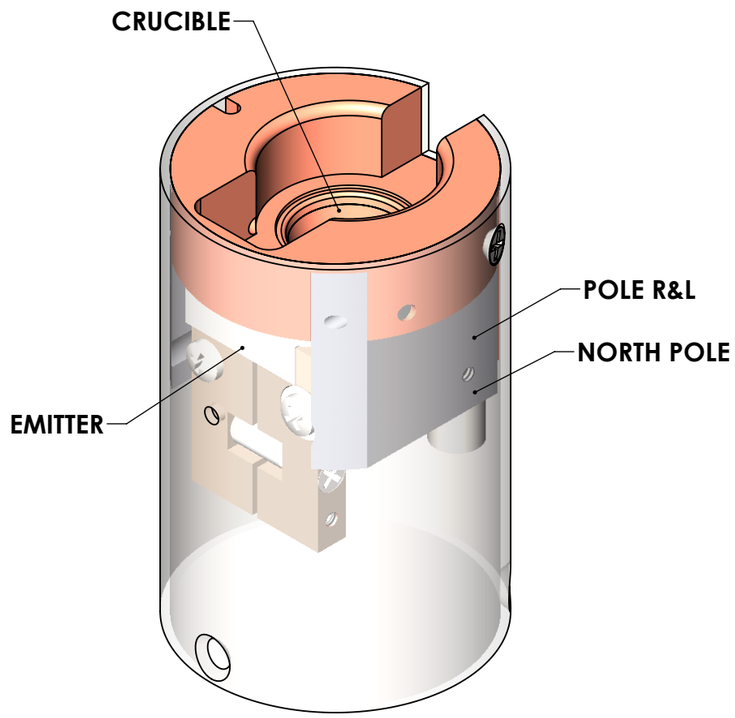

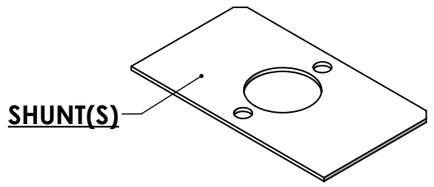

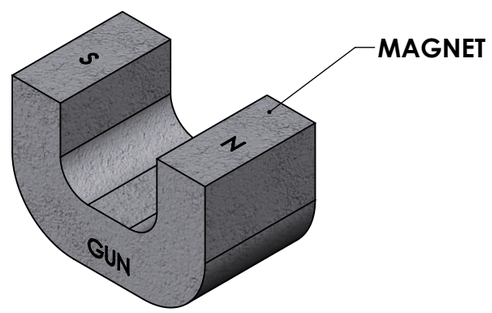

3 kW RC COMPACT e-GUN(TM) ASSEMBLY
SHUNTS ADJUSTMENT

IF BEAM IS AWAY FROM THE CENTER OF THE CRUCIBLE AND IT IS TOWARD THE EMITTER SIDE, IT MEANS THAT THE MAGNETIC IS TOO STRONG. BY ADDING A SHUNT IT WILL WEAKEN THE MAGNETIC FIELD AND IT WILL MOVE THE BEAM TOWARD THE CENTER.

REF. WITH ONE SHUNT 113347-XX ADDED.

a) -01 .01" THICK WILL WEAKEN THE MAGNETIC FIELD APPROX. 5 GAUSS. IT WILL MOVE THE BEAM BY ABOUT .01 OF AN INCH.
b) -02 .02" THICK WILL WEAKEN THE MAGNETIC FIELD APPROX. 7 GAUSS. IT WILL MOVE THE BEAM BY ABOUT .03 OF AN INCH.
c) -03 .03" THICK WILL WEAKEN THE MAGNETIC FIELD APPROX. 10 GAUSS. IT WILL MOVE THE BEAM BY ABOUT .05 OF AN INCH.

NOTE: ALL SHUNTS ARE SST.

PROPRIETARY AND CONFIDENTIAL
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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.						GEN. USE
CHK'D						
APPV'D						
MFG						
Q.A						

MATERIAL:

WEIGHT:

TITLE:
3 kW RC SERIES COMPACT e-GUN, SHUNTS ADJUSTMENT

DWG NO. 113988 | A3

SCALE:1:1 | SHEET 1 OF 1