

**3 kW RC ROD-FED 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
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF THERMIONICS LABORATORY INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF THERMIONICS LABORATORY INC. IS PROHIBITED.

<small>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.</small>		FINISH:		 thermionics laboratory, inc.		DO NOT SCALE DRAWING		REVISION	
						thermionics laboratory inc. 3118 Depot Rd., Hayward Ca. 94545			
DESIGN/ENG.	NAME	SIGNATURE	DATE	USED ON	NEXT ASSY.	TITLE: 3 kW RC SERIES ROD-FED e-GUN, SHUNTS ADJUSTMENT			
CHK'D					GEN. USE				
APPV'D									
MFG									
Q.A.				MATERIAL:		DWG NO.		A3	
				WEIGHT:		113988			
						SCALE: 1:1		SHEET 1 OF 1	