

CLASSIC 3 kW SINGLE POCKET 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 TWO SHUNTS 111416-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 ALUM.

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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	
DESIGN/ENG.		NAME				USED ON		NEXT ASSY.	
CHK'D								TITLE: CLASSIC 3 kW SINGLE POCKET e-GUN, SHUNTS ADJUSTMENT	
APPV'D								DWG NO. 113989	
MFG								A3	
Q.A						MATERIAL:		SCALE: 1:1	
						WEIGHT:		SHEET 1 OF 1	