

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

TMC PART NO.	"A"
BI 109-1	1.125
BI 109-2	1.080

REQ. PER UNIT
HFS-1

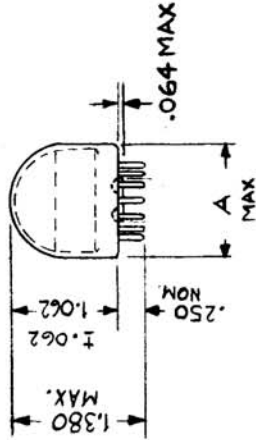
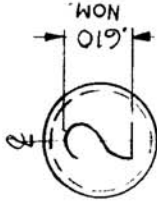
MODEL
8-15-62

USED ON
DATE
BI 109 B

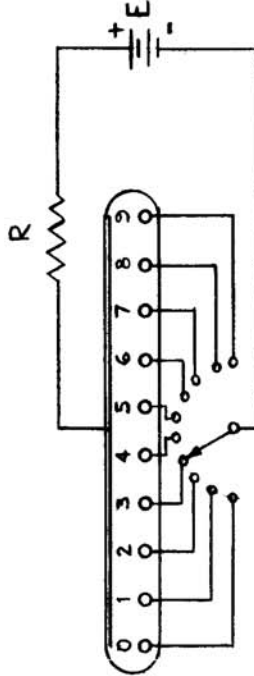
NOTE: DO NOT USE PINS
1 & 8



BOTTOM VIEW
DETAIL "A" ENVELOPE CONNECTION



NOTES~
1~ THE TUBE SOCKET IS ORIENTED WITH RESPECT TO THE VIEWING POSITION SO THAT PINS 1 & 8 ARE VERTICAL WITH PIN 8 ON TOP. THIS ORIENTS THE NUMERALS IN THE CORRECT VERTICAL POSITION. THEY ARE VIEWED THROUGH THE TOP OF THE TUBE.



TYPICAL CIRCUIT

STANDARD DRAWING

B	ELEC. SPECS. REVISED "B" DIM DELETED ON CHART Dwg 4.30.65	13961	JB	4.30.65	JB	4.30.65
A	MECH. SPECS. & REF. UPDATED .064 MAX DIM. ADDED	13219	JB	1.5.64	JB	1.5.64

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRAC. ± 1/64 DEC. ± .05 ANGLES ± 1/2°

SCALE: DO NOT SCALE

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.
REMOVE ALL BURRS AND SHARP EDGES

MECHANICAL SPECIFICATIONS~
SEATED HEIGHT ~ 1.125 MAX.
ENVELOPE CONNECTIONS~ SEE DETAIL "A".
MATING SOCKET ~ TMC # TS157
TEMP. ~ -65°C THROUGH + 70°C.
MOUNTING POSITION ~ SEE NOTE 1
CATHODE(S) ~ GLOW DISCHARGE.

ELECTRICAL SPECIFICATIONS~

1~ ELECTRICAL RATINGS:
IONIZATION VOLTAGE ~ 170 VDC MAX.
CATHODE CURRENT ~ PEAK 3.5 MA MAX,
AVERAGE 2.0-3.0 MA

2~ TEST CONDITIONS (SEE TYP. CIRCUIT).
ANODE SUPPLY VOLTAGE ~ 170 VDC
ANODE SERIES RESISTOR ~ 10 K OHMS.
CATHODE CURRENT ~ 1.5 μA MIN.
~ 3.0 μA MAX.

RECOMMENDED OPERATING CONDITIONS
(SEE TYP. CIRCUIT).

E	R
170	10-15K
250V	39-47K
300V	68-75K

REQ. ITEM	PART NO.	J. STRUMMER	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	STOCK SIZE		INDICATOR, DIGITAL DISPLAY	
	MATERIAL			
	TYPE & TEMPER		CHECKED	
	HEAT TREAT. SPEC.		DRAWN	
	FINISH & SPEC. NO.		ELEC. DES. APP. MECH. DES. APP.	
			FINAL APPROVAL	
			BI 109	B