

**MECHANICAL SPECIFICATIONS**

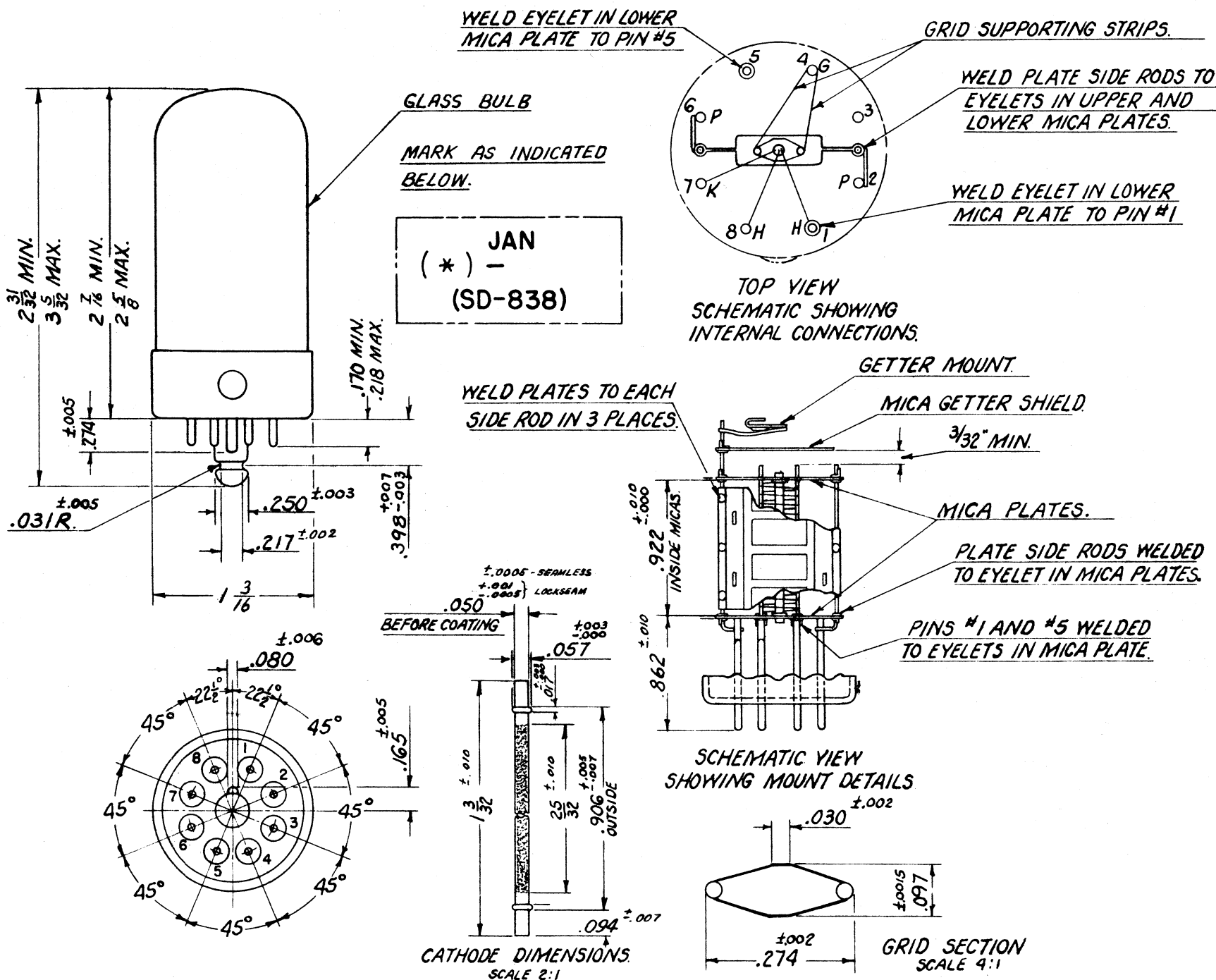
ITEM	MATERIAL	DIMENSIONS.
HEADER:	CORNING GLASS #G1	STANDARD LOCK-IN
HEADER PINS:	#4 (SILVER PLATED)	PIN CIRCLE DIA. .6875 $\pm$ .006 PIN .051 DIA. $\pm$ .002
PIN LENGTH:	#1,2,5 & 6 = .850 $\pm$ .005; #3,4,7 & 8 = $\frac{23}{32}$	
PLATE:	CARBONIZED NICKEL SHEET .005 $\pm$ .0005 THK. .530 $\pm$ .003 X .141 $\pm$ .003 I.D. X .875 $\pm$ .010	
PLATE SIDE RODS:	NICKEL	.040 $\pm$ .0005 DIA.
GRID SIDE RODS:	NICKEL	.030 $\pm$ .0005 DIA.
GRID WIRE:	MOLYBDENUM	.0035 DIA. (12.52 MGS. $\pm$ 4%/200mm)
GRID WINDING:		28 TURNS AT 32 T.P.I.
CATHODE:	NICKEL	SEE DETAIL
GRID SUPPORTING STRIPS:	MOLYBDENUM	.005" X .050"
CATHODE STRIP CONNECTOR:	GRADE "D" NICKEL	.004" X .012"
HEATER STRIP CONNECTOR:	STEEL	.012" X .030"

**ELECTRICAL SPECIFICATIONS**

ITEM	SPEC.
HEATER RATING:	28 VOLTS, 0.15 AMP.
D.C. PLATE VOLTAGE:	300 MAX. VOLTS.
D.C. GRID VOLTAGE:	-150 MAX. VOLTS
D.C. PLATE CURRENT:	40 MAX. MILLIAMPERES
D.C. GRID CURRENT:	10 MAX. MILLIAMPERES.
PLATE DISSIPATION:	6 MAX. WATTS.
AMPLIFICATION FACTOR:	5.7
INTERELECTRODE CAPACITIES: (SPEC.# FOR MEASUREMENT TECHNIQUE). GRID TO PLATE GRID TO CATHODE PLATE TO CATHODE	
FREQUENCY STABILITY: UNDER TEMPERATURE CHANGE - AS PER SPEC.# UNDER SHOCK & VIBRATION - AS PER SPEC.#	

**NOTES:**

1. TRANSMITTING TRIODE, TEMPORARY TYPE SD-838.
2. SEE DWG.# FOR ACCEPTANCE GAUGE FOR LOCATION OF BASE PINS AND KEYWAY.
3. WOUND SECTION OF GRID TO BE ALIGNED WITH COATED REGION OF CATHODE AND SYMMETRICALLY SPACED BETWEEN MICA PLATES.
4. TOP MICA PLATE MUST CARRY WIRE SPRINGS TO LOCATE THE MOUNT CENTRALLY IN BULB.
5. MARK BULB INDELIBLY AS INDICATED IN DETAIL. (\* INDICATES MANUFACTURER'S PREFIX LETTERS ASSIGNED BY NAVY AFTER TYPE APPROVAL.)
6. MARK BULB OR BASE INDELIBLY WITH MANUFACTURER'S NAME OR TRADE MARK.



**TUBE, VACUUM**

MAT:	FINISH:	SCALE: 1:1			
DIMENSION TOLERANCES UNLESS OTHERWISE SPECIFIED DECIMAL DIMENSIONS $\pm$ .002 FRACTIONAL DIMENSIONS $\pm$ 1/64					
CHANGE	DATE	APP.	CHANGE	DATE	APP.

**AIRCRAFT RADIO CORP.**  
BOONTON, N. J.

DWN. BY A.D.G.	DATE 5-15-44
CHK. BY H.C.	DATE 6-23-44
APP. BY A.N.	DATE 4-5-46

DWG. 10495-2-A

M.O. V.H.F. TRANS.