from RTMA release #1044, Dec. 17, 1951

TENTATIVE DATA

GENERAL CHARACTERISTICS

Microwave oscillator employing a demountable tuning cavity. Oxide coated unipotential cathode. Frequency range from 1200 to 3750 megacycles.

Heater Voltage (AC or DC)	6.3 Volts
Heater Current	650 mA

MAXIMUM RATINGS

Grid #1	300 Volts dc
Grid #2	300 Volts dc
Grid #3	300 Volts dc
Cathode Current	45 mAdc
Reflector Voltage	0 to -300 V dc
Frequency Range with Suitable Cavity	1200 to 3750 mc
Heater Cathode Potential Difference	45 V dc

TYPICAL OPERATION

Grid #1	300 Volts dc
Grid #2	300 Volts dc
Grid #3	300 Volts dc
Cathode Current	40 mAdc max
Reflector Voltage	-182 to -227 dc
Frequency Range	3458 to 3592 mc
Power Output	95 mW Minimum 140 mW Average

Electronic Tuning Range (Between ½ Power Points from 3458 to 3592 mc). . 20mc
Maximum Frequency Change in any 20°C Range from 20°C to 85°C using Navy Brass Cavity. (Raytheon Drawing C-16028 - S25). 3mc

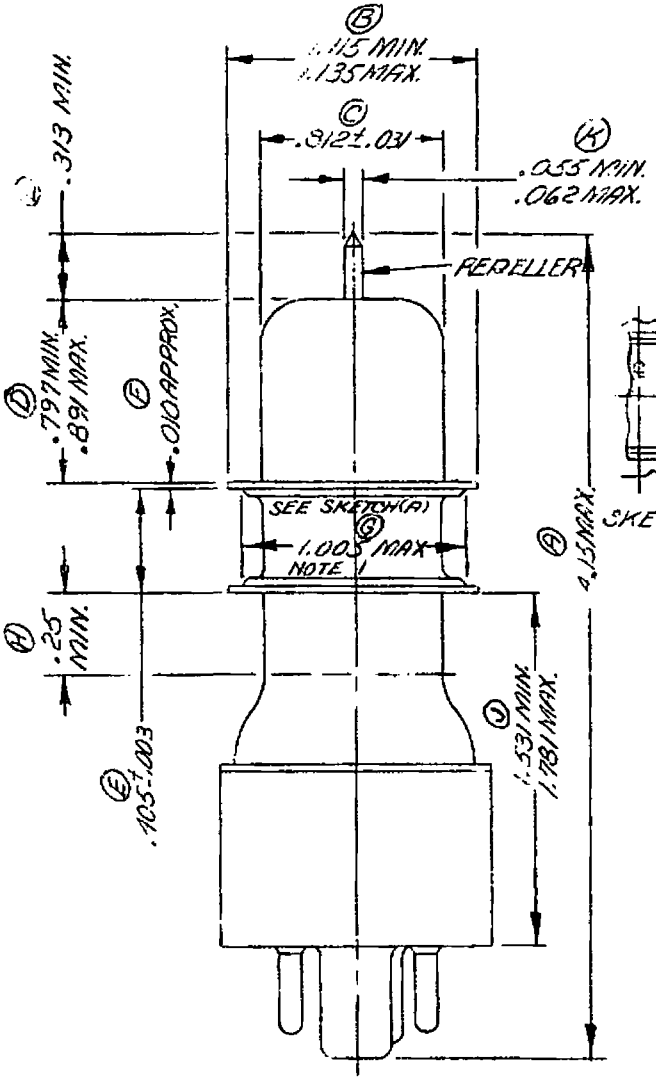
MECHANICAL

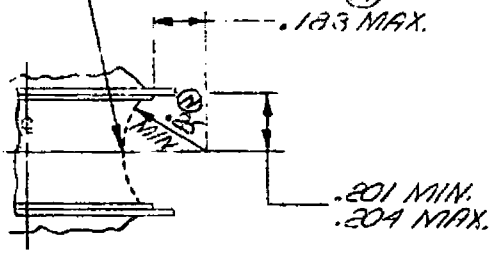
Base . . . . . Standard Intermediate Octal

Pin #:	2	7	3	6	Top Cap
Element	Heater	Heater	Cathode	Grid #1	Reflector

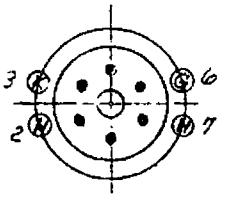
Maximum over-all dimensions: Height. . . 4.150" Diameter. . . 1 9/32"
Mounting . . . . . Any Position
Cooling. . . . . Freely Circulating Air

JAN-TYPE 6133





SKETCH A



BOTTOM VIEW OF STANDARD INTERMEDIATE OCTAL BASE

NOTE 1:
DIMENSION APPLIES TO EACH DISC SEPARATELY.

NOTE 2:
DISCS SHALL BE CONCENTRIC WITH EACH OTHER WITHIN 0.015". THE DISCS SHALL BE CONCENTRIC WITHIN .094".

NOTE 3:
DISCS SHALL BE SMOOTH, FREE FROM TEARS AND SHALL BE GOLD PLATED 30MSI OR 10MSI NICKEL PLUS 10MSI SILVER.

NOTE 4:
THE CAVITY DIMENSIONS WHICH CORRESPOND TO THE 0.405±0.003 DIMENSIONS ON THE TUBES SHALL BE 0.401" MAX., 0.396" MIN.

ALL DIMENSIONS IN INCHES.

DESIGN TEST: A, C, D, H, J,
TYPE APPROVAL TEST: F, K, L,
NOTE 3.

PRODUCTION TEST: B, E, G, M, N,
NOTES 1 & 2.

6133

6 SEPT. 1951