METAL TUBES

from RMA registration #81,
July 9, 1936

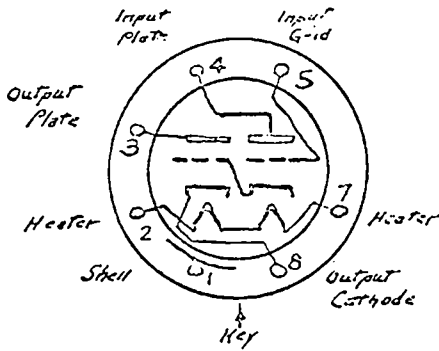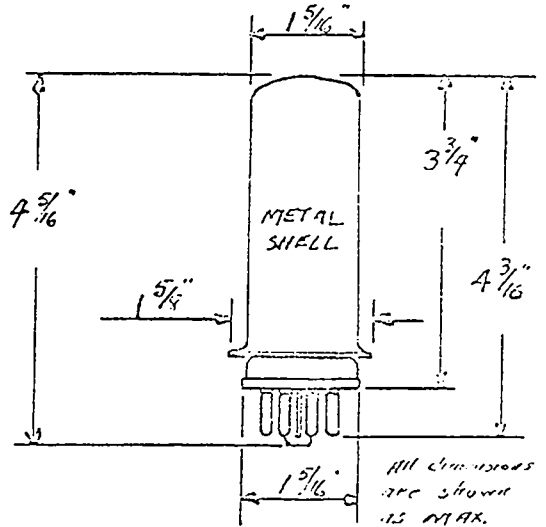KEN-RAD   6N6

Tentative Data

PAGE 1

GENERAL DESCRIPTION

Application: The Ken-Rad 6N6 is a cathode type power output
tube comprising two triodes so connected internally as to form
a direct coupled amplifier.   Although the internal construction
and theory of operation is different from conventional output
tubes, external circuit considerations are very similar to Class
A triodes and pentodes.   Operation of the 6N6 is characterized
by high power output, low distortion, and simplicity of circuit
components.   The base is of the small octal type and the tube
elements are enclosed in a metal shell which is connected to one
of the base pins.

Physical Characteristics:

Bottom View

Rating And Characteristics

Heater:
Voltage   6.3 Volts AC or DC
Current   .8 Ampere

Note: Voltage between heater and cathode should not
exceed 50 volts.   In no case should the heater be
left floating.

AMPLIFIER OPERATION   SINGLE TUBE   (CLASS A)

Plate Voltage (Output)	250	300	Volts
Plate Voltage (Input)	250	300	Volts
°°Grid Voltage	0	0	Volts
°Plate Current (Output)	33	45	Milliamperes
°Plate Current (Input)	6.5	8.0	Milliamperes
Plate Resistance		24100	Ohms
Amplification Factor		58	
Mutual Conductance		2400	Micromhos
Load Resistance	7000	7000	Ohms
Power Output	2.5	4	Watts
Total Harmonic Distortion	5	5	Per Cent
Input Volts for Rated Output	13.5	15	RMS Volts

° Static Plate Current. °°DC Resistance in grid return should
not exceed .5 megohm.

METAL TUBES

AMPLIFIER OPERATION (CLASS A) - PUSH PULL - TWO TUBES

Plate Voltage (Output)	250	300	Volts
Plate Voltage (Input)	250	300	Volts
°°Grid Voltage	0	0	Volts
°Plate Current (Output)	33	45	Milliamperes
°Plate Current (Input)	6.5	8.0	Milliamperes
Load Resistance (Plate to Plate)	10000	10000	Ohms
Power Output	8.5	10	Watts
Total Harmonic Distortion	5	5	Per Cent
**Input Volts for Rated Output	38	38	RMS Volts

°° DC Resistance in grid return should not exceed .5 megohm.

° Static plate current. (Per tube)

** Grid to Grid.