

RADIO MANUFACTURERS ASSOCIATION

ENGINEERING DEPARTMENT



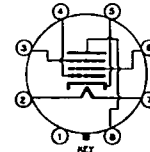
Registration No. 360
January 25, 1944

TYPE 6AJ7

AMPLIFIER PENTODE

Metal Envelope; Single-Ended.

8N



Physical Specifications

Coated Unipotential Cathode	
Base	Special Small Wafer Octal 8 pin, Micanol
Bulb	Metal Shell, MT-8
Maximum Diameter	1-15/64"
Maximum Overall Length	2-5/8"
Maximum Seated Height	2-1/16"
Pin Connections	RMA Basing 8N-1-1
Pin 1 - Shell & Internal Shield	Pin 5 - Cathode
Pin 2 - Heater	Pin 6 - Grid #2
Pin 3 - Grid #3	Pin 7 - Heater
Pin 4 - Grid #1	Pin 8 - Plate

Mounting Position

Any

Direct Interelectrode Capacitances

Grid to Plate	0.015 uuf. max.
Input	11. uuf
Output	5. uuf

Ratings

Heater Voltage	6.3 volts
Heater Current	0.45 Ampere
Maximum Plate Voltage	300 volts
Maximum Screen Supply Voltage	300 volts
Maximum Screen Voltage	150 volts
Maximum Plate Dissipation	3.02 watts
Maximum Screen Dissipation	0.38 watts

Typical Operating Conditions and Characteristics

Amplifier Class A

Sharp Cutoff

Remote Cutoff

Heater Voltage	6.3	6.3	volts
Plate Voltage	300	300	volts
Screen Supply Voltage *	150	300	volts
Screen Resistor	--	60000	ohms
Suppressor Voltage **	0	0	volts
Cathode Bias Resistor *	160	160	ohms
Plate Current	10	10	ma
Screen Current	2.5	2.5	ma
Transconductance	9000	9000	umhos
Plate Resistance (approx)	1.0	1.0	megohm

* The d.c. resistance of the grid input circuit should not exceed 0.25 megohm when the screen voltage is obtained from a fixed source. When a series screen resistor is used with full cathode bias, the d.c. resistance in the grid input circuit may be as high as 0.5 megohm.

** Under sharp cut-off conditions the maximum suppressor grid voltage required for plate current cut-off is -150 volts.

Note: The sponsor proposes to mark the tube type here described "
"6AJ7/6AC7"

1. The assembled tube shall conform with the outline drawing shown below.
2. Shell to be standard MT8 metal tube shell
3. Header skirt shall be of such material or shall be so plated as to be rust proof and non-corrosive and the outer surface area shall not be painted or otherwise treated with non-conducting material.
4. Header skirt preferably to be welded on top of shell flange so as to cover main seal weld.

