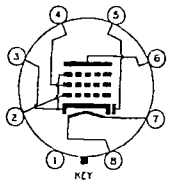
RADIO MANUFACTURERS ASSOCIATION
ENGINEERING DEPARTMENT

Release No. 490

sponsor:
Amalgamated Wireless Valve Co.

April 25, 1946

7AZ



RMA TYPE 6SF7GT

Diode-super-control Amplifier
Pentode, Single-ended type.

Heater	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	ampere
Direct Interelectrode Capacitances:o		
Pentode Unit		
Grid to Plate	0.005 max.	μμf
Input	5.5	μμf
Output	6.0	μμf
Pentode Grid to Diode Plate	0.004 max.	μμf
Pentode Plate to Diode Plate	0.3	μμf
Maximum Overall Length	3-5/16"	
Maximum Seated Height	2-3/4"	
Maximum Diameter	1-5/16"	
Bulb	T9	
Base	Small Wafer Octal 8-Pin, Sleeve	
Mounting Position		Any

o With shield No. 308 connected to cathode.

Pentode Unit - Amplifier

Plate Voltage	300 max.	volts
Screen Voltage	100 max.	volts
Screen Supply Voltage	300 max.	volts
Grid Voltage	0 min.	volts
Plate Dissipation	3.5 max.	watts
Screen Dissipation	0.5 max.	watt

Typical Operation and Characteristics-Class A_1 Amplifier:

Plate Voltage	100	250	volts
Screen Voltage	100	100	volts
Grid Voltage	-1	-1	volt
Plate Resistance (Approx.)	0.2	0.7	megohm
Transconductance	1975	2050	micromhos
Grid Voltage (Approx.) for Transconductance = 10 micromhos	-35	-35	volts
Plate Current	12	12.4	ma.
Screen Current	3.4	3.5	ma.

DIODE UNIT.

The diode plate is placed around the cathode, the sleeve of which is common to the pentode unit. Diode curves shown under type 6B7 apply to the 6SF7-GT.

PIN CONNECTIONS.

Pin 1-Base Sleeve and Internal Shield
Pin 2-Pentode Grid
Pin 3-Cathode, Suppressor
(Pin numbers are according to RMA)
Pin 4-Pentode Screen
Pin 5-Diode Plate
Pin 6-Pentode Plate
Pin 7-Heater
Pin 8-Heater