



**RADIO MANUFACTURERS ASSOCIATION  
ENGINEERING DEPARTMENT**

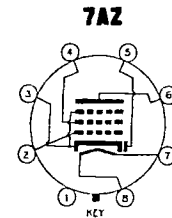
Release No. 490

sponsor:  
Amalgamated Wireless Valve Co.

April 25, 1946

**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: <sup>o</sup>			
Pentode Unit			
Grid to Plate		0.005 max.	μmf
Input		5.5	μmf
Output		6.0	μmf
Pentode Grid to Diode Plate		0.004 max.	μmf
Pentode Plate to Diode Plate		0.3	μmf
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<sub>1</sub> 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 Trans-			
conductance = 10 micromhos	-35	-35	volts
Plate Current	12	12.4	ma.
Screen Current	3.4	3.3	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 4-Pentode Screen
Pin 2-Pentode Grid	Pin 5-Diode Plate
Pin 3-Cathode,	Pin 6-Pentode Plate
Suppressor	Pin 7-Heater
(Pin numbers are according to RMA)	Pin 8-Heater