TECHNICAL DATA

7AJ7

Sylvania

TYPE 7AJ7

SHARP CUT-OFF RF PENTODE

PHYSICAL SPECIFICATIONS

Style	Lock-In
Base	Lock-In 8-Pin
Bulb	T-9
Diameter	1 3/16" Max.
Seated Height	2 1/4" Max.
Overall Length	2 25/32" Max.
Mounting Position	Any

BASE PIN CONNECTIONS

Pin 1 - Heater
Pin 2 - Plate
Pin 3 - Screen Grid
Pin 4 - Suppressor Grid
Pin 5 - Internal Shield
Pin 6 - Grid
Pin 7 - Cathode
Pin 8 - Heater
RMA Basing 8V-L-5

RATINGS AND CHARACTERISTICS

Heater Voltage (Nominal) AC or DC	7.0	Volts
Heater Current (Nominal)	0.320	Ampere
Maximum Plate Voltage	300	Volts
Maximum Screen Voltage	100	Volts
Maximum Screen Supply Voltage	300	Volts
Maximum Plate Dissipation	1.0	Watt
Maximum Screen Dissipation	0.1	Watt
Minimum External Grid Bias	0	Volt
Maximum Heater-Cathode Voltage	90	Volts

Direct Interelectrode Capacitances:*

Grid to Plate	.007	μμf. Max.
Input	6.0	μμf.
Output	6.5	μμf.

* *With 1 5/16" diameter shield (RMA Std. M8-308) connected to cathode.*

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

Class A1 Amplifier

Heater Voltage (AC or DC)	6.3	6.3	Volts
Heater Current	0.300	0.300	Ampere
Plate Voltage	100	250	Volts
Screen Voltage	100	100	Volts
Control Grid Voltage	-1.0	-3.0	Volts
Self Bias Resistor	130	~~100~~ 1000	Ohms
Suppressor Grid & Pin No. 5	Connected to Cathode		
Plate Current	5.7	2.2	Ma.
Screen Current	1.8	0.7	Ma.
Plate Resistance (Approx.)	.400	>1.0	Megohm
Mutual Conductance	2275	1575	μmhos
Grid Bias for Plate Current Cut-off	-8.5	-8.5	Volts

CIRCUIT APPLICATION

Sylvania Type 7AJ7 is a triple grid amplifier designed specially for use in AC receivers and in the first stages of high gain amplifiers. The electrical characteristics are almost identical to those of Type 6SJ7 and are identical with those of Sylvania Type 14C7, except for the heater rating. Reference should be made to the Type 14C7 data sheet for curves and to the Type 7C7 data sheet for resistance coupled amplifier data.

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