

RCA-6SF5

HIGH-MU TRIODE Single-Ended Metal Type

The 6SF5 is a new metal high-mu triode featuring single-ended construction with interlead shielding between grid and heater within the base. The shielding reduces the hum voltage picked up by the grid lead from the heater leads, and permits operation with a satisfactory hum level. The electrical characteristics of the 6SF5 are similar to those of type 6F5.

from a circuit standpoint, the single-ended construction offers distinct advantages in comparison with corresponding types previously available, as follows: (1) elimination of loose or broken grid leads, (2) wiring can be completed below the set panel, (3) neater appearance of the chassis, (4) lowered cost, and (5) simplification of tube renewal.

TENTATIVE CHARACTERISTICS and RATINGS

HEATER VOLTAGE (A.C. of D.C.)	6.3	Volts
HEATER CURRENT	0.3	Ampere
DIRECT INTERELECTRODE CAPACITANCES: O	2.6	
Grid to Cathode	4.2	uut uut
Plate to Cathode	3.8	ии T ии f
MAXIMUM OVERALL LENGTH	2-5/8	
MAXINUM DIAMETER	1-5/16" Small Wafer Octal 6-Pin	
BASE	Small Water	UCTAI 6-PIN

With shell connected to cathode.

Amplifier - Class A

OPERATING CONDITIONS and CHARACTERISTICS: Heater Voltage 6.3 Volts Plate Voltage
Grid Voltage
Amplification Factor
Plate Resistance Volts 100 66000 Ohms Micromhos Milliampere Transconductance 1500 0.9 Plate Current

In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

INSTALLATION and APPLICATION

The 6SF5 is recommended for use in resistance-coupled circuits. Operating conditions are the same as those for type 6F5.

Outline Drawing

Same as for 6SJ7

Pin Connections

Pin 1 - Shell Pin 5 - Plate Pin 7 - Heater Pin 8 - Heater Pin 2 - Cathode Pin 3 - Grid

(Pin numbers are according to RMA system)

Mounting Position

Vertical or Horizontal - No restrictions

-44A

JETEC DATA JOINT ELECTRON TUBE ENGINEERING COUNCIL COMMITTEE ON RECEIVING TUBES

J5-6SF5 August 30, 1951

JETEC TYPE 65F5

TRIODE

ECHANICAL DATA		
Base	Pin 5 - Plate Pin 7 - Heate Pin 8 - Heate	11 wafer octal 6-pin
Mounting position		any
ELECTRICAL, DATA		
Ratings		
Maximum plate voltage. Maximum heater-cathode	oltage	300 volts
Heater current Plate voltage Grid voltage Amplification factor Plate resistance Transconductance		00 300 ma 00 250 volts 1 -2 volts 00 100 5,000 66,000 ohms 150 1500 μmhos
Typical Operating Conditions and Characteristics, Resistance Coupled Amplifier		
Heater voltage Plate supply voltage Control grid voltage Plate load resistor. Control grid resistor Input condenser. Output condenser Grid resistor of followi Signal source impedance. Distortion Output voltage (r.m.s.) Voltage gain	100 100 30 0 0 0.25 0.25 0 10 10 1001 .00501 .005 0 0 0 5 5 7 8.5	01 .005 μμ1 01 .005 μμ1 .5 1.0 megohm 0 0 ohms 5 5 %

Refer to "Interpretation of Receiving Tube Ratings"