

ELECTRONIC TUBE REFERENCE

60FX5

Power - Pentode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Power/output pentode designed for audio, broadband, telephone, industrial, or general power-amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7CV	BASE PINS	7
NOMINAL HEATER	60 V / 100 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7CV - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – G3	A	G3 – Suppressor Grid	CONNECTED
PIN1 – K	A	K – Cathode	CONNECTED
PIN2 – G1	A	G1 – Control Grid	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – G1	A	G1 – Control Grid	CONNECTED
PIN6 – G2	A	G2 – Screen Grid	CONNECTED
PIN7 – P	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	17500 Ω
TRANSCONDUCTANCE	0.0135 S
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM SCREEN VOLTAGE	130 V
MAXIMUM PLATE DISSIPATION	5.5 W
MAXIMUM SCREEN DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	50 mA
<i>Values promoted from the supplied Sylvania source where explicitly published.</i>	

Miniature power pentode used in output stages of audio amplifiers.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1950 SYLVANIA

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	60 V	—
Heater Current	100 mA	—



SOURCE OPERATING CONDITIONS

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1961 Tung Sol

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1961 TUNG SOL

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Transformerless AC/DC audio output	—
Power Output	2.3 W	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Westinghouse Data Book

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1965 WESTINGHOUSE DATA BOOK

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	60 V	—
HeaterOrFilamentCurrent	100 mA	—
Transconductance	13500 uS	—
Input Capacitance	8.5 pF	—
Output Capacitance	8.5 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	110 V	ClassA
Screen Voltage	110 V	ClassA
Plate Current	50 mA	ClassA
Screen Current	7 mA	ClassA
Load Resistance	2500 ohm	ClassA
Power Output	1.3 W	ClassA
PushPullPowerOutput	10 W	TwoTubes;PushPull;ClassAB
Grid Voltage	-5 V	ClassA



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

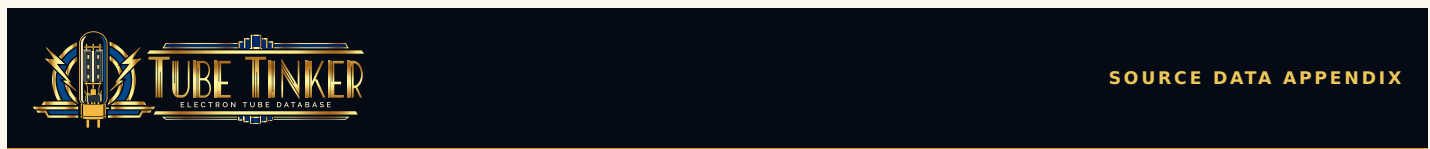
1966 Tung Sol Electronic Tubes 3 of 4

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	60 V	—
Heater current	100 mA	—
Plate supply voltage	110 V	ClassA
Screen supply voltage	115 V	ClassA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode resistor	62 ohm	ClassA
Plate current	36 mA	ClassA
Screen current	10 mA	ClassA
Maximum-signal power output	1.3 W	ClassA
Maximum plate voltage	150 V	—
Maximum screen voltage	130 V	—
Maximum plate dissipation	5.5 W	—
Maximum screen dissipation	2 W	—



SOURCE OPERATING CONDITIONS

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1971 RCA HB3 Binder 5 of 7

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1971 RCA HB3 BINDER 5 OF 7

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	60 V	—
Heater current	100 mA	—
Plate voltage	110 V	ClassA
Screen voltage	115 V	ClassA
Cathode resistor	62 ohm	ClassA
Plate current	36 mA	ClassA
Screen current	10 mA	ClassA
Maximum plate voltage	150 V	—
Maximum screen voltage	130 V	—
Plate dissipation	5.5 W	—
Screen input	2 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	17500 ohm	ClassA
Transconductance	13500 uS	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.65 pF	—
Input capacitance	17 pF	—
Output capacitance	9 pF	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 RCA RC30

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1975 RCA RC30

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/dc) 12.6 18.9	60 V	Published in approved 12FX5 target entry; Section1
Heater Current 0.45 0.3	100 mA	Published in approved 12FX5 target entry; Section1
Heater Warm-up Time (Average) 11	11 seconds	Published in approved 12FX5 target entry; Section1
Plate Voltage	150 V	Published in approved 12FX5 target entry; Section1
Grid-No.2 (Screen-Grid) Voltage	130 V	Published in approved 12FX5 target entry; Section1
Plate Dissipation	5.5 W	Published in approved 12FX5 target entry; Section1
Grid-No.2 Input	2 W	Published in approved 12FX5 target entry; Section1
Plate Supply Voltage	110 V	Published in approved 12FX5 target entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No.2 Supply Voltage	116 V	Published in approved 12FX5 target entry; Section1
Cathode-Bias Resistor	62 Ω	Published in approved 12FX5 target entry; Section1
Peak AF Grid-No.1 Voltage	3 V	Published in approved 12FX5 target entry; Section1
Zero-Signal Plate Current	36 mA	Published in approved 12FX5 target entry; Section1
Maximum-Signal Plate Current	35 mA	Published in approved 12FX5 target entry; Section1
Transconductance	13600 μS	Published in approved 12FX5 target entry; Section1
Load Resistance	3000 Ω	Published in approved 12FX5 target entry; Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 to Plate	0.65 pF	Published in approved 12FX5 target entry; Section1
Grid No 1 to Cathode. Heater, Grid No.2, and Grid No.3	17 pF	Published in approved 12FX5 target entry; Section1
Plate to Cathode, Heater, Grid No.2, and Grid No.3	9 pF	Published in approved 12FX5 target entry; Section1

TUBE TINKER

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