

ELECTRONIC TUBE REFERENCE

6JS6

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Compactron beam-power pentode designed primarily for television horizontal-deflection amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12FY	BASE PINS	12
NOMINAL HEATER	6.3 V / 2.25 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

12FY - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	H – Heater	CONNECTED
PIN2	–	K – Cathode	CONNECTED
PIN3	–	G2 – Screen Grid	CONNECTED
PIN4	–	G3 – Suppressor Grid	CONNECTED
PIN5	–	G1 – Control Grid	CONNECTED
PIN7	–	–	IC
PIN9	–	–	IC
PIN10	–	G3 – Suppressor Grid	CONNECTED
PIN11	–	G2 – Screen Grid	CONNECTED
PIN12	–	H – Heater	CONNECTED
CAP1	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	5600 Ω
TRANSCONDUCTANCE	0.0113 S
AMPLIFICATION FACTOR	3
MAXIMUM PLATE VOLTAGE	990 V
MAXIMUM SCREEN VOLTAGE	190 V
MAXIMUM PLATE DISSIPATION	28 W
MAXIMUM SCREEN DISSIPATION	5.5 W
MAXIMUM CATHODE CURRENT	315 mA
<i>Published ratings/characteristics promoted from supplied source; additional conditions retained in parameter table.</i>	

The 6JS6 is a beam-power pentode in Compactron construction, designed primarily as the horizontal-deflection amplifier in television receivers.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Positive Pulse Plate Voltage	7500 V	HorizontalDeflection
Peak Negative Pulse Plate Voltage	1100 V	HorizontalDeflection
Peak Cathode Current	1100 mA	HorizontalDeflection
Plate Voltage	175 V	Typical operation
Screen Voltage	125 V	Typical operation

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	125 mA	Typical operation



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1964 RMA EIA

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

1964 RMA EIA

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	2.25 A	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1 To Plate Capacitance	0.7 pF	—
Input Capacitance	24 pF	—
Output Capacitance	10 pF	—
Plate Resistance Approximate	5600 ohm	—
Transconductance	11300 uS	—
TriodeAmplificationFactor	3	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Positive Pulse Plate Voltage	7500 V	HorizontalDeflection
Peak Negative Pulse Plate Voltage	1100 V	HorizontalDeflection
PositiveDCBeamPlateVoltage	270 V	—
Screen Voltage Maximum	190 V	—
Plate Dissipation Maximum	28 W	—
Screen Dissipation Maximum	5.5 W	—
DCCathodeCurrentMaximum	315 mA	—
PeakCathodeCurrentMaximum	1100 mA	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 2 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak positive pulse plate voltage	7500 V	HorizontalDeflection
Peak negative pulse plate voltage	1100 V	HorizontalDeflection
Peak cathode current	1100 mA	HorizontalDeflection

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	175 V	HorizontalDeflection
Grid 2 voltage	125 V	HorizontalDeflection
Grid 1 voltage	-25 V	HorizontalDeflection
Plate current	125 mA	HorizontalDeflection

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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