

ELECTRONIC TUBE REFERENCE

7EY6

Power - TV Vertical Output electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Beam-power television tube designed for vertical-deflection output service, with pulse-rated voltage and current capability for frame-scan amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	7.2 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	60000 Ω
TRANSCONDUCTANCE	0.004399999999999999 S
MAXIMUM PLATE VOLTAGE	350 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	11 W
MAXIMUM CATHODE CURRENT	60 mA
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
Promoted fields mapped by printed headings; additional data retained in parameters.	

The 7EY6 is a beam-power pentode designed for vertical-deflection amplifier service in television receivers using 110-degree picture tubes, with controlled heater warm-up.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	60000 ohm	Typical
Transconductance	4400 uS	Typical



SOURCE OPERATING CONDITIONS

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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
Maximum_peak_pulse_plate_voltage	2500 V	—
Maximum_peak_negative_grid_voltage	270 V	—
Maximum_peak_cathode_current	180 mA	—
Maximum_bulb_temperature	200 C	—
Plate_voltage	250 V	TVVerticalDeflection
Screen_voltage	250 V	TVVerticalDeflection
Heater_warmup_time	11 s	TVVerticalDeflection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate_current	44 mA	TVVerticalDeflection

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen_current	3 mA	TVVerticalDeflection
Transconductance	4000 uS	TVVerticalDeflection

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	11 pF	—
Output capacitance	7 pF	—



SOURCE DATA APPENDIX

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage, ACor DC. i,	7.2 V	Published datasheet line; semantic text-layer recovery
DCPlate Voltage v ii it iiiii i e	350 V	Published datasheet line; semantic text-layer recovery
Peak Pulse Plate Voltage0,	2500 V	Published datasheet line; semantic text-layer recovery
ScreenVoltage o i e	300 V	Published datasheet line; semantic text-layer recovery
Plate Dissipation\$. o i i	11 W	Published datasheet line; semantic text-layer recovery
DCCathode Current.ot iiiiiiiniinnnnn,	60 mA	Published datasheet line; semantic text-layer recovery
Peak Cathode Current.ciitiiiiiiiiiniannn,	180 mA	Published datasheet line; semantic text-layer recovery
DC Component. iiuiitininiinneensanenneans	100 V	Published datasheet line; semantic text-layer recovery
Total DCand Peak	200 V	Published datasheet line; semantic text-layer recovery

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TotalDCand Peak.oiiiiiiiiiii it i	200 V	Published datasheet line; semantic text-layer recovery
Plate Voltage e e e e 50	250 V	Published datasheet line; semantic text-layer recovery
Screen Yoltage. i e e e e 250	250 V	Published datasheet line; semantic text-layer recovery
Grid-Number 1 Voltageo oY -	175 V	Published datasheet line; semantic text-layer recovery
Plate CUPrent e e 153	44 mA	Published datasheet line; semantic text-layer recovery
Screen Current e 21	3 mA	Published datasheet line; semantic text-layer recovery
Ib=T100 Microtmperes.ottt ittt ettt et et e et - -	48 V	Published datasheet line; semantic text-layer recovery
Ep =	250 V	Published datasheet line; semantic text-layer recovery
Ep =	250 V	Published datasheet line; semantic text-layer recovery

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance, approximate. i e e e	60000 Ohm	Published datasheet line; semantic text-layer recovery
TransconduCtanCet e e e e	4400 uS	Published datasheet line; semantic text-layer recovery

TUBE TINKER

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