

ELECTRONIC TUBE REFERENCE

6EF6

Power - TV Vertical Output electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Beam-power pentode designed primarily as a vertical-deflection amplifier in wide-angle television receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 900 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
TRANSCONDUCTANCE	0.005 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM SCREEN DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	60 mA
Section 1 extracted from 6EF6.pdf.	

Beam-power pentode designed primarily as a vertical-deflection amplifier in wide-angle television receivers.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

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

1938 RAYTHEON

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage 6.3 9.4	12.6 V	Heater voltage 6.3 9.4 12,6 volts
Heater current 0.9 0.8	450 mA	Heater current 0.9 0.8 0,45 amps
Total DC and peak	200 V	Total DC and peak 200 volts
Total DC and peak	200 V	Total DC and peak 200 volts
Maximum plate voltage	250 V	Maximum plate voltage 250 volts
Maximum grid #2 voltage	250 V	Maximum grid #2 voltage 250 volts
** Maximum peak positive pulse plate voltage (abs., max.)	2000 V	** Maximum peak positive pulse plate voltage (abs., max.) 2000 volts
Maximum plate dissipation	10 W	Maximum plate dissipation 10 watts
Maximum peak negative pulse grid #1 voltage	250 V	Maximum peak negative pulse grid #1 voltage 250 volts
Maximum grid #2 dissipation	2 W	Maximum grid #2 dissipation 2.0 watts
Maximum average cathode current	60 mA	Maximum average cathode current 60 ma,
Maximum peak cathode current	180 mA	Maximum peak cathode current 180 ma.
* Maximum grid #1 circuit resistance (Rk=100 ohm minimum)	2.2 MΩ	* Maximum grid #1 circuit resistance (Rk=100 ohm minimum) 2,2 megohms
Heater voltage 6.3 0.4	12.6 V	Heater voltage 6.3 0.4 12.6 volts
Plate voltage	250 V	Plate voltage 250 volts
Grid #2 voltage	250 V	Grid #2 voltage 250 volts
Plate current	50 mA	Plate current 50 ma,
Grid #2 current	2 mA	Grid #2 current 2 ma,
Transconductance	5000 μS	Transconductance 5000 umhos

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid #1 voltage (approx.) for Ib = 1 milliampere	-40 V	Grid #1 voltage (approx.) for Ib = 1 milliampere -40 volts

TUBE TINKER

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and their source documents.

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