

ELECTRONIC TUBE REFERENCE

6V6S

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Beam-power pentode designed for audio-frequency Class-A1 single-ended and push-pull output service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 500 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
MAXIMUM PLATE VOLTAGE	500 V
MAXIMUM SCREEN VOLTAGE	450 V
MAXIMUM PLATE DISSIPATION	12 W
MAXIMUM SCREEN DISSIPATION	2.2 W
MAXIMUM CATHODE CURRENT	100 mA
Filename-matched Russian source entry only.	

Audio-frequency beam-power pentode for Class A1 single-ended and push-pull output service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1981 Russian Tubes Katsnelson and Larionov

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

1981 RUSSIAN TUBES KATSNELSON AND LARIONOV

Section 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	4903540 mA	Translated from Russian source; Ток накала, мА . Е . 500=-50 4903540
Plate current	44 mA	Translated from Russian source; Ток анода, мА . . . 45=-18 443
Screen current	7 mA	Translated from Russian source; Ток 2-й сетки, мА. . . <7
Transconductance	1.1 mA/V	Translated from Russian source; Крутизна характеристики, мА/В эр 4,9+1,1
Output capacitance	-5 pF	Translated from Russian source; Выходная мощность (при Ка—5 кОм),
Input capacitance	51.7 pF	Translated from Russian source; входная . . . , 7,5-51,7
Output capacitance	1 pF	Translated from Russian source; выходная. . . , к, 5=1
Transfer capacitance	0.7 pF	Translated from Russian source; проходная . . . К, <0,7
Output capacitance	3 pF	Translated from Russian source; выходная мощность, Вт . =3 >3

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service life	7500 h	Translated from Russian source; Нарботка, ч , * » * ° * * > 2000 >7500
Heater voltage	6.6 V	Translated from Russian source; Напряжение накала, В. . . , , 5,7—6,9 6—6,6
Plate voltage	250 V	Translated from Russian source; Напряжение анода, В . . . , , 250 250

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate dissipation	12 W	Translated from Russian source; Мощность, рассеиваемая анодом Вт , , 12


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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199X JJ

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Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Plate Voltage	250 V	—
Typical Screen Voltage	250 V	—
TypicalControlGridVoltage	-12.5 V	—
Typical Plate Current	45 mA	—
Typical Screen Current	5 mA	—
LoadResistanceSingle	50000 ohm	ClassA1;OneTube
PowerOutputSingle	4.5 W	ClassA1;OneTube
PlateToPlateLoadResistance	10000 ohm	PushPull;ClassA1;TwoTubes
PowerOutputPushPull	10 W	PushPull;ClassA1;TwoTubes

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridCapacitance	9 pF	—
Plate Capacitance	8.5 pF	—
PlateGridCapacitance	0.7 pF	—


SOURCE DATA APPENDIX

2026 JJ Electronic

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2026 JJ ELECTRONIC

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	4.5 W	ClassA;OneTube;Plate 250 V;Screen 250 V
Power Output	10 W	PushPull;TwoTubes;Plate 250 V;Screen 250 V;Load 10 kohm

TUBE TINKER

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

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