



ELECTRONIC TUBE REFERENCE

KT88

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

High-power beam tetrode developed for high-fidelity audio output stages, combining approximately 42 W plate dissipation and 800 V plate capability for substantial single-ended or push-pull power.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 1.6 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
PLATE RESISTANCE	12000 Ω
TRANSCONDUCTANCE	0.0115 S
AMPLIFICATION FACTOR	8
MAXIMUM PLATE VOLTAGE	800 V
MAXIMUM SCREEN VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	42 W
MAXIMUM SCREEN DISSIPATION	8 W
MAXIMUM CATHODE CURRENT	230 mA
<i>Published ratings/characteristics promoted where unambiguous.</i>	

Beam tetrode for low-frequency power amplification in HI-FI audio output stages; source co-designates 6550.



SOURCE OPERATING CONDITIONS

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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
and a capacitance of 50–	150 pF	Published datasheet value; semantic OCR text extraction.

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
will be obtained with a single inductor and a capacitance of 50–	150 pF	Published datasheet value; semantic OCR text extraction.



SOURCE OPERATING CONDITIONS

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199X JJ

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199X JJ

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Plate Voltage	250 V	—
Typical Screen Voltage	250 V	—
TypicalControlGridVoltage	-15 V	—
Typical Plate Current	140 mA	—
Typical Screen Current	7 mA	—
MaximumCombinedPlateScreenDissipation	46 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridCapacitance	16.5 pF	—
Plate Capacitance	10 pF	—
GridPlateCapacitance	2.3 pF	—



SOURCE DATA APPENDIX

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199X Svetlana

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199X SVETLANA

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage (AC or DC) 5.7 6.3	6.9 V	SourcePage1-2
Current	1.6 A	SourcePage1-2
base sleeve and heater	16 pF	SourcePage1-2
base sleeve and heater	12 pF	SourcePage1-2
Grid no.1 to plate	1.2 pF	SourcePage1-2

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC plate voltage	800 V	SourcePage1-2
Grid no.2 DC (screen) voltage	600 V	SourcePage1-2
Grid no.1 (control) voltage	-300 V	SourcePage1-2
DC cathode current	230 mA	SourcePage1-2
Plate dissipation	42 W	SourcePage1-2
Grid no.2 (screen) dissipation	8 W	SourcePage1-2
DC plate voltage	400 V	TypicalOperation
Grid no.2 DC (screen) voltage	225 V	TypicalOperation

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid no.1 DC (control) voltage	-16.5 V	TypicalOperation
Peak AF grid no.1 (control) voltage	16.5 V	TypicalOperation
Zero-signal plate current	87 mA	TypicalOperation
Max signal plate current	105 mA	TypicalOperation
Max signal grid no.2 (screen) current	18 mA	TypicalOperation
Signal output	19 W	TypicalOperation
Vscreen =	300 V	TypicalOperation
Eg =	0 V	TypicalOperation
Vscreen =	140 V	TypicalOperation



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2026 JJ Electronic

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2026 JJ ELECTRONIC

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Uf	6.3 V	Published value
If	1.6 A	Published value

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ua	250 V	Published value
Ug2	250 V	Published value
Ia	140 mA	Published value
Ig2	7 mA	Published value
Ug1	-15 V	Published value
S	11500 μ S	Published value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ri	12 kΩ	Published value
Ia+g2	147 mA	Published value
Ug1	-15 V	Published value

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
S	12000 μS	Published value
cg1	16.5 pF	Published value
Ri	670 Ω	Published value
μ	8	Published value



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2026 Tungsol Rebrand

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2026 TUNG SOL REBRAND

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	—	HI-FI audio power output

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