



ELECTRONIC TUBE REFERENCE

KT77

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Audio-frequency beam pentode explicitly designed for beam-power output service in high-quality power-amplifier stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 1.4 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	23000 Ω
TRANSCONDUCTANCE	0.0105 S
AMPLIFICATION FACTOR	11.5
MAXIMUM PLATE VOLTAGE	850 V
MAXIMUM SCREEN VOLTAGE	650 V
MAXIMUM PLATE DISSIPATION	32 W
MAXIMUM SCREEN DISSIPATION	6 W
MAXIMUM CATHODE CURRENT	200 mA
A.F. beam pentode.	

The source identifies this device as KT77 a. f. beam pentode. It also specifies beam-power output service.



SOURCE OPERATING CONDITIONS

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
A beam tetrode with an absolute maximum anode dissipation rating of	32 W	Published datasheet value; semantic OCR text extraction.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

199X JJ

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

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	100 mA	—
Typical Screen Current	10 mA	—
MaximumCombinedPlateScreenDissipation	28 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridCapacitance	16.5 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Capacitance	9 pF	—
PlateGridCapacitance	1 pF	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Genalex Rebrand

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

2026 GENALEX REBRAND

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	80–130 mA	Plate 250 V; screen 250 V; grid -11 V
Transconductance	8500–14000 μ S	Plate 250 V; screen 250 V; grid -11 V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	7 W	Plate 250 V; screen 250 V; load 2.0 kohm; ClassA;OneTube


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 JJ Electronic

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

2026 JJ ELECTRONIC

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Uf	6.3 V	Published value
If	1.4 A	Published value

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ua	250 V	Published value
Ug2	250 V	Published value
Ug1	-13.5 V	Published value
Ia	100 mA	Published value
Ig2	10 mA	Published value
S	10500 μ S	Published value
μ	11.5	Published value

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cg1	16.5 pF	Published value
Ca	9 pF	Published value
Ca/g1	1 pF	Published value