ELECTRONIC TUBE REFERENCE

KT120

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
BEAMPOWER

> High-power beam tetrode designed primarily for high-fidelity audio output, with 60-watt plate dissipation and push-pull designs reaching approximately 200 watts.

General characteristics

BASE DESIGNATION	7AC	**BASE PINS**	8
NOMINAL HEATER	6.3 V / 1.95 A	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

7AC - Terminal pinout

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 — Pin 1	—	—	NC · verified
PIN2 — Pin 2	—	H — Heater	CONNECTED · verified
PIN3 — Pin 3	A	P — Plate (Anode)	CONNECTED · verified
PIN4 — Pin 4	A	G2 — Screen Grid	CONNECTED · verified
PIN5 — Pin 5	A	G1 — Control Grid	CONNECTED · verified
PIN7 — Pin 7	—	H — Heater	CONNECTED · verified
PIN8 — Pin 8	A	BP — Beam-Forming Plate	CONNECTED · verified
PIN8 — Pin 8	A	K — Cathode	CONNECTED · verified

Section ratings

SECTION1 Beam Power	
PLATE RESISTANCE	3000 Ω
TRANSCONDUCTANCE	0.0125 S
MAXIMUM PLATE VOLTAGE	850 V
MAXIMUM SCREEN VOLTAGE	650 V
MAXIMUM PLATE DISSIPATION	60 W
MAXIMUM SCREEN DISSIPATION	8 W
MAXIMUM CATHODE CURRENT	250 mA
850-V plate rating is tetrode connection; 650-V screen rating is pentode connection. Alternate connection limits retained as parameters.	

High-power beam tetrode for low-frequency power amplification in HI-FI audio output stages.

SOURCE OPERATING CONDITIONS

1961 Tung Sol

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1961 TUNG SOL

Section 1 · Beam Power

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Heater voltage	**6.3 V**	—
Heater current minimum	**1.7 A**	—
Heater current maximum	**1.95 A**	—
Triode-connection maximum plate voltage	**650 V**	TriodeConnection
Triode/ultralinear maximum grid-2 voltage	**600 V**	TriodeConnection
Cathode current maximum	**230 mA**	TriodeConnection
Maximum signal power output minimum	**20 W**	ClassA1
Total harmonic distortion maximum	**14 %**	ClassA1

CAPACITANCE		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Grid-1-to-plate capacitance	**1.8 pF**	—
Input capacitance	**29 pF**	—
Output capacitance	**10 pF**	—

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Plate current minimum	**135 mA**	ClassA1
Plate current maximum	**165 mA**	ClassA1
Grid-2 current maximum	**14 mA**	ClassA1

SOURCE OPERATING CONDITIONS

2026 Tungsol Rebrand

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Section 1 · Beam Power

APPLICATION		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Application	**HighPowerAudioOutput text**	—

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