

ELECTRONIC TUBE REFERENCE

1644

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
PENTODE-PENTODE

Special-quality twin-pentode power amplifier related to the 12L8GT family, intended for dependable power-amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8BU	BASE PINS	8
NOMINAL HEATER	12.6 V / 150 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

8BU - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 1G1	A	G1 – Control Grid	CONNECTED
PIN2 – 1G3	A	G3 – Suppressor Grid	CONNECTED
PIN2 – K	A	K – Cathode	CONNECTED
PIN2 – 2G3	B	G3 – Suppressor Grid	CONNECTED
PIN3 – 2G1	B	G1 – Control Grid	CONNECTED
PIN4 – 2P	B	P – Plate (Anode)	CONNECTED
PIN5 – 1G2	A	G2 – Screen Grid	CONNECTED
PIN5 – 2G2	B	G2 – Screen Grid	CONNECTED
PIN6 – H	–	H – Heater	CONNECTED
PIN7 – H	–	H – Heater	CONNECTED
PIN8 – 1P	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	160000 Ω
TRANSCONDUCTANCE	0.00215 S
MAXIMUM PLATE VOLTAGE	180 V
MAXIMUM SCREEN VOLTAGE	180 V
<i>Promoted from printed maximum-rating/characteristic columns; additional published values retained in TUBE_SECTION_PARAMETER.</i>	

SECTION2 Pentode	
PLATE RESISTANCE	160000 Ω
TRANSCONDUCTANCE	0.00215 S
MAXIMUM PLATE VOLTAGE	180 V
MAXIMUM SCREEN VOLTAGE	180 V

Special-quality twin-pentode power amplifier related to the 12L8GT family.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	5 pF	EachSection
Output capacitance	6 pF	EachSection
Grid-to-plate capacitance	0.7 pF	EachSection

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	180 V	ClassA;EachSection
Screen voltage	180 V	ClassA;EachSection
Control-grid voltage	-9 V	ClassA;EachSection
Plate current	13 mA	ClassA;EachSection
Screen current	2.8 mA	ClassA;EachSection
Load resistance	10000 Ω	ClassA;EachSection
Power output	1 W	ClassA;EachSection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	160000 Ω	EachSection
Transconductance	2150 μS	EachSection

TUBE TINKER

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and their source documents.

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