

ELECTRONIC TUBE REFERENCE

6BG7

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Subminiature medium-mu twin triode intended for Class-A amplifier service, providing two compact triode sections for general signal amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8DG	BASE PINS	8
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

8DG - TERMINAL PINOUT

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

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	7000 Ω
TRANSCONDUCTANCE	0.0048 S
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	110 V
MAXIMUM PLATE DISSIPATION	1 W
Medium-mu twin triode for Class-A amplifier service.	

SECTION2 Triode	
PLATE RESISTANCE	7000 Ω
TRANSCONDUCTANCE	0.0048 S
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	110 V
MAXIMUM PLATE DISSIPATION	1 W
Physical triode restored under current one-row-per-physical-section policy.	

Subminiature double triode.

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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	ClassA; OperatingPoint1
Cathode resistor	100 ohm	ClassA; OperatingPoint1
Plate current	8 mA	ClassA; OperatingPoint1
Plate resistance	7000 ohm	ClassA; OperatingPoint1
Transconductance	4800 uS	ClassA; OperatingPoint1
Amplification factor	35	ClassA; OperatingPoint1

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	2 pF	—
Output capacitance	1.6 pF	Section1
Grid-to-plate capacitance	1.5 pF	—

TUBE TINKER

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