



ELECTRONIC TUBE REFERENCE

6SG7GT

Voltage Pentode - Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Semi-remote-cutoff RF pentode with a 6.3 V, 0.3 A heater. Manufacturer handbook data document controlled-gain high-frequency amplification and representative operating conditions for receiver service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8BK	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

8BK - TERMINAL PINOUT

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

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	900000 Ω
TRANSCONDUCTANCE	0.0047 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	150 V
<i>Published maximum ratings and representative operating characteristics reviewed.</i>	

6SG7GT is listed in the supplied receiving-tube handbook as a semi-remote-cutoff RF pentode. The published heater rating is 6.3 V at 0.3 A. Maximum ratings and representative operating characteristics were transcribed from the supplied table.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	Published handbook rating
Maximum screen voltage	150 V	Published handbook rating
Plate voltage	250 V	ClassA OperatingPoint1
Screen voltage	125 V	ClassA OperatingPoint1
Control-grid bias	1 V	ClassA OperatingPoint1
Plate current	11.8 mA	ClassA OperatingPoint1
Screen current	4.4 mA	ClassA OperatingPoint1
Plate voltage	100 V	ClassA OperatingPoint2
Screen voltage	100 V	ClassA OperatingPoint2
Control-grid bias	1 V	ClassA OperatingPoint2
Plate current	8.2 mA	ClassA OperatingPoint2
Screen current	3.2 mA	ClassA OperatingPoint2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	900000 ohm	ClassA OperatingPoint1
Transconductance	4700 μS	ClassA OperatingPoint1
Plate resistance	250000 ohm	ClassA OperatingPoint2
Transconductance	4100 μS	ClassA OperatingPoint2
Heater voltage	6.3 V	Published heater rating
Heater current	300 mA	Published heater rating