

ELECTRONIC TUBE REFERENCE

6G6GT

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
PENTODE

GT-envelope low-current power-amplifier pentode with documented pentode- and triode-connected operation. Designed for audio output where modest power and relatively low current consumption are useful.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7S	BASE PINS	7
NOMINAL HEATER	6.3 V / 150 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7S - TERMINAL PINOUT

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

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	175000 Ω
TRANSCONDUCTANCE	0.0023 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
<i>GT-envelope low-current power-amplifier pentode with pentode- and triode-connected data.</i>	

GT-envelope low-current power-amplifier pentode with pentode- and triode-connected data. Published maximum ratings, characteristics, and representative operating conditions were extracted from the approved source page where available.

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
Plate voltage	180 V	ClassA; PentodeConnection
Screen voltage	180 V	ClassA; PentodeConnection
Control-grid bias magnitude	9 V	ClassA; PentodeConnection
Plate current	15 mA	ClassA; PentodeConnection
Screen current	2.5 mA	ClassA; PentodeConnection
Plate resistance	175000 ohm	ClassA; PentodeConnection
Transconductance	2300 uS	ClassA; PentodeConnection
Load resistance	10000 ohm	ClassA; PentodeConnection
Power output	1.1 W	ClassA; PentodeConnection
Plate voltage	180 V	ClassA; TriodeConnection; ScreenTiedToPlate
Control-grid bias magnitude	12 V	ClassA; TriodeConnection; ScreenTiedToPlate
Plate current	11 mA	ClassA; TriodeConnection; ScreenTiedToPlate
Plate resistance	4750 ohm	ClassA; TriodeConnection; ScreenTiedToPlate
Transconductance	2000 uS	ClassA; TriodeConnection; ScreenTiedToPlate
Amplification factor	9.5	ClassA; TriodeConnection; ScreenTiedToPlate
Load resistance	12000 ohm	ClassA; TriodeConnection; ScreenTiedToPlate
Power output	0.25 W	ClassA; TriodeConnection; ScreenTiedToPlate

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

