

ELECTRONIC TUBE REFERENCE

6F6GT

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

GT-envelope power-amplifier pentode with documented push-pull Class-A ratings. Designed for receiver audio-output service in compact tubular-glass construction.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7S	BASE PINS	8
NOMINAL HEATER	6.3 V / 700 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	80000 Ω
TRANSCONDUCTANCE	0.0025 S
MAXIMUM PLATE VOLTAGE	375 V
MAXIMUM SCREEN VOLTAGE	285 V
MAXIMUM PLATE DISSIPATION	11 W
MAXIMUM SCREEN DISSIPATION	3.75 W
<i>GT-envelope power-amplifier pentode with push-pull Class-A ratings.</i>	

GT-envelope power-amplifier pentode with push-pull Class-A ratings. 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	315 V	ClassA; TwoTubes; PushPull; PlateAndScreenCurrentValuesForTwoTubes
Screen voltage	285 V	ClassA; TwoTubes; PushPull; PlateAndScreenCurrentValuesForTwoTubes
Control-grid bias magnitude	24 V	ClassA; TwoTubes; PushPull; PlateAndScreenCurrentValuesForTwoTubes
Plate current	62 mA	ClassA; TwoTubes; PushPull; PlateAndScreenCurrentValuesForTwoTubes
Screen current	12 mA	ClassA; TwoTubes; PushPull; PlateAndScreenCurrentValuesForTwoTubes
Load resistance	10000 ohm	ClassA; TwoTubes; PushPull; PlateAndScreenCurrentValuesForTwoTubes
Power output	11 W	ClassA; TwoTubes; PushPull; PlateAndScreenCurrentValuesForTwoTubes

TUBE TINKER

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and their source documents.

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