

ELECTRONIC TUBE REFERENCE

6F6GTG

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Power-amplifier pentode intended for receiver output stages, with single-ended Class-A and push-pull Class-A/AB operating conditions. This GTG variant retains the fundamental 6F6 audio power function.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	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

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
Promoted small-signal values use 250 V pentode Class A1 condition; triode-connected operation preserved as parameters.	

The 6F6GTG is a pentode power amplifier intended for receiver power-output stages, with published single-ended Class A and push-pull Class A/AB operating conditions.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate_voltage	250 V	ClassA,OneTube
Screen_voltage	250 V	ClassA,OneTube
Control_grid_voltage	-16.5 V	ClassA,OneTube
Load_resistance	7000 ohm	ClassA,OneTube
Power_output	3.2 W	ClassA,OneTube
Total_harmonic_distortion	8 percent	ClassA,OneTube
Plate_voltage	375 V	PushPull,TwoTubes,ClassAB
Screen_voltage	250 V	PushPull,TwoTubes,ClassAB
Power_output	18.5 W	PushPull,TwoTubes,ClassAB
Effective_load_resistance_plate_to_plate	10000 ohm	PushPull,TwoTubes,ClassAB

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Zero_signal_plate_current	34 mA	ClassA,OneTube
Zero_signal_screen_current	6.5 mA	ClassA,OneTube

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