



ELECTRONIC TUBE REFERENCE

6AL6G

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Heater-type tetrode power amplifier designed for Class-A and general power-amplifier service. Its output capability supports low-frequency or general-purpose load-driving applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6AM	BASE PINS	6
NOMINAL HEATER	6.3 V / 900 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

6AM - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – Pin 1	–	–	NC · verified
PIN2 – Pin 2	–	H – Heater	CONNECTED · verified
PIN3 – Pin 3	–	–	NC · verified
PIN4 – Pin 4	A	G2 – Screen Grid	CONNECTED · verified
PIN5 – Pin 5	A	G1 – Control Grid	CONNECTED · verified
PIN7 – Pin 7	–	H – Heater	CONNECTED · verified
PIN8 – Pin 8	A	BP – Beam-Forming Plate	CONNECTED · verified
PIN8 – Pin 8	A	K – Cathode	CONNECTED · verified

TERMINAL	SECTION	ELEMENT	STATUS
CAP1 – Top cap	A	P – Plate (Anode)	CONNECTED · verified

SECTION RATINGS

SECTION1 Tetrode	
PLATE RESISTANCE	22500 Ω
TRANSCONDUCTANCE	0.006 S
MAXIMUM PLATE VOLTAGE	350 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	18.6 W
MAXIMUM SCREEN DISSIPATION	3.7 W
Published maximum ratings, representative operating characteristics, and capacitance columns reviewed.	

Heater-type tetrode power amplifier intended for Class A and power-amplifier service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

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

1938 RAYTHEON

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum D~C Soresn Voltage	300 V	Maximum D~C Soresn Voltage 300 volts
Mazimum Grid Resistor (Self-Bias)	0.5 MΩ	Mazimum Grid Resistor (Self-Bias) 0.5 megohm
Meaximum Sevesn Dissipation	8.7 W	Meaximum Sevesn Dissipation 8.7 watts
Hoatex Voltage 6.3	6.3 V	Hoatex Voltage 6.3 6.3 volts
Maximm-Signal Plete Currant 79	78 mA	Maximm-Signal Plete Currant 79 78 ma
Maximum Signal Sorssn Currens oD	7.2 mA	Maximum Signal Sorssn Currens oD 7.2 ma



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 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	350 V	Published handbook rating
Maximum screen voltage	300 V	Published handbook rating
Plate voltage	250 V	ClassA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen voltage	250 V	ClassA
Control-grid bias	11 V	ClassA
Plate current	72 mA	ClassA
Screen current	5 mA	ClassA
Load resistance	2500 ohm	ClassA
Power output	6.5 W	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	22500 ohm	Published handbook characteristic
Transconductance	6000 μ S	Published handbook characteristic
Heater voltage	6.3 V	Published heater rating
Heater current	900 mA	Published heater rating

TUBE TINKER

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