

ELECTRONIC TUBE REFERENCE

6848

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TETRODE

Metal-ceramic four-electrode transmitting tetrode for grounded-grid RF power amplifier or oscillator service through approximately 800 MHz, with an integral forced-air-cooled anode radiator.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9V	BASE PINS	9
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9V - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – P	A	P – Plate (Anode)	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – G1	A	G1 – Control Grid	CONNECTED
PIN5 – G1	A	G1 – Control Grid	CONNECTED
PIN6 – K	A	K – Cathode	CONNECTED
PIN7 – G1	A	G1 – Control Grid	CONNECTED
PIN8 – G1	A	G1 – Control Grid	CONNECTED
PIN9 – H	–	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Tetrode	
PLATE RESISTANCE	1800 Ω
TRANSCONDUCTANCE	0.004 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	180 V
MAXIMUM SCREEN VOLTAGE	750 V
MAXIMUM PLATE DISSIPATION	2000 W
<i>Published maximum ratings, representative operating conditions, and available capacitance/rectifier data reviewed.</i>	

Metal-and-ceramic four-electrode transmitting tetrode for grounded-grid RF power amplifier or oscillator service through 800 MHz, with integral forced-air-cooled anode radiator.

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	180 V	Published handbook rating
Plate voltage	150 V	ClassA
Plate current	26 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	1800 ohm	Published handbook characteristic
Transconductance	4000 μ S	Published handbook characteristic
Amplification factor	43	Published handbook characteristic
Heater/filament voltage	6.3 V	Published heater/filament rating
Heater/filament current	300 mA	Published heater/filament rating

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode-to-plate capacitance	0.01 pF	—
Input capacitance	28 pF	—
Output capacitance	6.6 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Class C output power	3.2 kW	ClassC

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