

ELECTRONIC TUBE REFERENCE

46

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Directly heated dual-grid power-amplifier tetrode designed especially for Class-B audio-output service. Its filamentary construction provides substantial low-frequency power in push-pull amplifier stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5C	BASE PINS	5
NOMINAL HEATER	2.5 V / 1.75 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
PLATE RESISTANCE	2380 Ω
TRANSCONDUCTANCE	0.00235 S
AMPLIFICATION FACTOR	5.6
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM CATHODE CURRENT	200 mA
Published ratings and characteristics promoted where applicable.	

Directly heated dual-grid power-amplifier tube intended especially for Class B audio-output service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Raytheon Radio Receiving Tubes

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

1937 RAYTHEON RADIO RECEIVING TUBES

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	ClassA;Grid2AndPlateTied
Grid Voltage	-13 V	ClassA;Grid2AndPlateTied
Plate Current	22 mA	ClassA;Grid2AndPlateTied
Load Resistance	6400 ohm	ClassA
Power Output	1.25 W	ClassA



SOURCE OPERATING CONDITIONS

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193X Cunningham

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

193X CUNNINGHAM

Section 1 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	2.5 V	Published nominal
Heater/filament current	1.75 A	Published nominal
Transconductance	2350 uS	Published characteristic
Amplification factor	5.6	Published characteristic
Plate resistance	2400 Ohm	Published characteristic

SOURCE OPERATING CONDITIONS

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1940 RCA

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1940 RCA

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	2.5 V	Nominal
HeaterCurrentNominal	1.75 A	Nominal
Maximum Plate Voltage	400 V	—
Maximum Plate Dissipation	10 W	—
Maximum Cathode Current	200 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2350 μ S	Typical
Amplification Factor	5.6	Typical
Plate Resistance	2380 ohm	Typical

SOURCE OPERATING CONDITIONS

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1950 Sylvania

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

1950 SYLVANIA

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2350 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating Mode	Class B push-pull	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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195X General Electric Essential Characteristics

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195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	ClassA;Grid2AndPlateTied
Grid Voltage	-13 V	ClassA;Grid2AndPlateTied
Plate Current	22 mA	ClassA;Grid2AndPlateTied
Load Resistance	6400 ohm	ClassA
Power Output	1.25 W	ClassA


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	20 W	ClassB;TwoTubes;PlateVoltage=400V