

ELECTRONIC TUBE REFERENCE

6F8G

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Medium-mu twin triode with separate triode systems, intended for general Class-A voltage amplification and phase-inverter service in receiving equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8G	BASE PINS	8
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	7700 Ω
TRANSCONDUCTANCE	0.0026 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.5 W
Representative section for electrically identical repeated sections.	

SECTION2 Triode	
PLATE RESISTANCE	7700 Ω
TRANSCONDUCTANCE	0.0026 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.5 W
<i>Second physical triode restored.</i>	

Twin triode containing two triode sections in one envelope.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Ken Rad

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

1937 KEN RAD

Section 1 · Triode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	50 V	Plate Voltage £50 Volts Max.
Grid Voltage	-8 V	Grid Voltage -8 Volts
Plate Current	9 mA	Plate Current 9.0 Milliamperes
Amplification Factor	20 ratio	Amplification Factor 20
Mutual Conductance	2600 µS	Mutual Conductance 2600 Micromhos Approx.



SOURCE OPERATING CONDITIONS

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1937 Raytheon Radio Receiving Tubes

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1937 RAYTHEON RADIO RECEIVING TUBES

Section 1 · Triode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	250 V	Published table

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate	4.5	Published table; Column1
Grid to Plate	4.16	Published table; Column2
Input	3.3 pF	Published table; Column1
Input	3 pF	Published table; Column2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
output	1.5	Published table; Column1
output	2	Published table; Column2
Plate Voltage	250 V	Published table
Grid Bias	-8 V	Published table
Amplification Factor	20	Published table
Plate Resistance {approximate}	7700 ohm	Published table
Transconductance (approximate)	2600 uS	Published table



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1950 Sylvania

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1950 SYLVANIA

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
“Tension chauffage CA ou CC 6,3 volts	6.3 V	“Tension chauffage CA ou CC 6,3 volts
Courant chauffage 0,6 ampères	600 mA	Courant chauffage 0,6 ampères
Tension chauffage CA ou CC... .. 6,3 volts	6.3 V	Tension chauffage CA ou CC... .. 6,3 volts
Courant chauffage o0 . . 0,6 ampère	600 mA	Courant chauffage o0 . . 0,6 ampère
Tension grille 0 volt min,	0 V	Tension grille 0 volt min,
Tension plaque 9,0 250 volts	250 V	Tension plaque 9,0 250 volts
Courant plaque v wer e e . 10,0 9 ma.	9 mA	Courant plaque v wer e e . 10,0 9 ma.
Résistance interne «. .. . 6,700 7,700 ohms	7.7 ohms	Résistance interne «. .. . 6,700 7,700 ohms
Tension d'alimentation de plaque 100 250 volts	250 V	Tension d'alimentation de plaque 100 250 volts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tension grille ~2,25 --55 volts	-55 V	Tension grille ~—2,25 --55 volts
Courant plaque par section 1,5 2,4 ma.	2.4 mA	Courant plaque par section 1,5 2,4 ma.
Résistance de charge par plaque 30,000 50,000 ohms	50 ohms	Résistance de charge par plaque 30,000 50,000 ohms
Résistance de polarisation automatique 750 1,150 ohms	1.15 ohms	Résistance de polarisation automatique 750 1,150 ohms
Pour le fonctionnement en inversion de phase, la tension de plaque	1 A	Pour le fonctionnement en inversion de phase, la tension de plaque

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tension PLAQUE ... vco e e ene e e e 300 volts max.	300 V	Tension PLAQUE ... vco e e ene e e e 300 volts max.
Dissipation plaque (par p)aque) 2,5 watts max,	2.5 W	Dissipation plaque (par p)aque) 2,5 watts max,
Tension efficace utile maximum 20 65 volts ap.	65 V	Tension efficace utile maximum 20 65 volts ap.



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

195X General Electric Essential Characteristics

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195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA; RepresentativeIdenticalSection
Control-grid bias magnitude	8 V	ClassA; RepresentativeIdenticalSection
Plate current	9 mA	ClassA; RepresentativeIdenticalSection

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	7700 ohm	ClassA; RepresentativeIdenticalSection
Transconductance	2600 uS	ClassA; RepresentativeIdenticalSection
Amplification factor	20	ClassA; RepresentativeIdenticalSection

TUBE TINKER

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