

ELECTRONIC TUBE REFERENCE

6112

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Subminiature high-mu twin triode intended for UHF amplifier service, offering two compact voltage-amplifying sections for high-frequency equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8DG	BASE PINS	8
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

8DG - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 2P	B	P – Plate (Anode)	CONNECTED
PIN2 – 2G1	B	G1 – Control Grid	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – 2K	B	K – Cathode	CONNECTED
PIN5 – 1K	A	K – Cathode	CONNECTED
PIN6 – H	–	H – Heater	CONNECTED
PIN7 – 1G1	A	G1 – Control Grid	CONNECTED
PIN8 – 1P	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	28000 Ω
TRANSCONDUCTANCE	0.0018 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	165 V
MAXIMUM PLATE DISSIPATION	0.1 W
MAXIMUM CATHODE CURRENT	22 mA
<i>Representative row for electrically identical repeated sections.</i>	

SECTION2 Triode	
PLATE RESISTANCE	28000 Ω
TRANSCONDUCTANCE	0.0018 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	165 V
MAXIMUM PLATE DISSIPATION	0.1 W
MAXIMUM CATHODE CURRENT	22 mA
<i>Second physical triode restored under current one-row-per-physical-section policy.</i>	

Subminiature high-mu twin triode for UHF service.



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 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	300 mA	—



SOURCE OPERATING CONDITIONS

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195X General Electric Essential Characteristics

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195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	165 V	Published handbook rating
Plate voltage	150 V	ClassA
Plate current	1.75 mA	ClassA
Alternate plate voltage	100 V	ClassA OperatingPoint2
Alternate plate current	0.8 mA	ClassA OperatingPoint2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	28000 ohm	Published handbook characteristic

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2500 μS	Published handbook characteristic
Amplification factor	70	Published handbook characteristic
Heater/filament voltage	6.3 V	Published heater/filament rating
Heater/filament current	300 mA	Published heater/filament rating
Alternate plate resistance	39000 ohm	ClassA OperatingPoint2
Alternate transconductance	1800 μS	ClassA OperatingPoint2
Alternate amplification factor	70	ClassA OperatingPoint2



SOURCE OPERATING CONDITIONS

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1960 RCA Industrial and Communications Types

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1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	300 mA	—



SOURCE OPERATING CONDITIONS

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1961 Tung Sol

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1961 TUNG SOL

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ImpactAcceleration	450 g	—
UniformAcceleration	1000 g	—
VibrationalAcceleration	2.5 g	—
Service	UHF amplifier	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 4 of 4

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1966 TUNG SOL ELECTRONIC TUBES 4 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6.3 V	—
Heater/filament current	300 mA	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application summary	Subminiature high-mu twin triode for UHF service.	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	150 V	—
Plate current	8 mA	—
Transconductance	6000 μ S	—
Amplification factor	60	—
Grid-to-plate capacitance	1.4 pF	—
Maximum cathode current	22 mA	—

SOURCE OPERATING CONDITIONS

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1999 Philips 0-D

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1999 PHILIPS 0-D

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode current	0.8 mA	Typical per section
Anode-grid capacitance	1 pF	Interelectrode
Grid-cathode-heater capacitance	1.7 pF	Interelectrode