

ELECTRONIC TUBE REFERENCE

7803

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TRIODE-TRIODE

High-frequency twin triode designed for continuous Class-C RF amplifier and frequency-multiplier service, including doubler operation around 175 MHz with useful RF power output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9A	BASE PINS	9
NOMINAL HEATER	6.3 V / 365 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9A - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 2P	B	P – Plate (Anode)	CONNECTED
PIN2 – 2G1	B	G1 – Control Grid	CONNECTED
PIN3 – 2K	B	K – Cathode	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN6 – 1P	A	P – Plate (Anode)	CONNECTED
PIN7 – 1G1	A	G1 – Control Grid	CONNECTED
PIN8 – 1K	A	K – Cathode	CONNECTED
PIN9 – HCT	–	HCT – Heater Center Tap	CONNECTED

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0125 S
AMPLIFICATION FACTOR	33
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	3.5 W
MAXIMUM CATHODE CURRENT	30 mA
<i>Published ratings and characteristics promoted from the supplied datasheet where legible.</i>	

SECTION2 Triode	
TRANSCONDUCTANCE	0.0125 S
AMPLIFICATION FACTOR	33
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	3.5 W
MAXIMUM CATHODE CURRENT	30 mA
<i>Second physical triode restored under current one-row-per-physical-section policy.</i>	

High-frequency twin triode for continuous Class-C amplifier and RF frequency-multiplier service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Triode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	Nominal published value



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Sylvania Electronic Tubes Vol3

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Triode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	365 mA	—
Transconductance	12500 μ S	—
Amplification factor	33	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage minimum	5.7 V	—
Heater voltage maximum	6.9 V	—
Heater-cathode voltage maximum heater negative	200 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater-cathode voltage maximum heater positive DC	100 V	—
Plate voltage maximum	200 V	ClassC
Plate dissipation maximum per section	3.5 W	ClassC
Plate dissipation maximum total	7 W	ClassC
Cathode current maximum per section	30 mA	ClassC
Grid current maximum per section	2.5 mA	ClassC
Negative grid voltage maximum	-75 V	—
Typical plate voltage	90 V	—
Typical grid voltage	-1.3 V	—
Typical plate current per section	15 mA	—
RF doubler frequency maximum	175 MHz	ClassC
RF doubler plate voltage	160 V	ClassC
RF doubler grid voltage	-70 V	ClassC
RF doubler grid resistor	33000 ohm	ClassC
RF doubler peak RF grid voltage	77 V	ClassC
RF doubler grid current	2.5 mA	ClassC
RF doubler plate current	26 mA	ClassC
RF doubler output power	1 W	ClassC

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance per section	1.4 pF	—
Input capacitance per section	3.3 pF	—
Output capacitance per section	2.5 pF	—
Inter-section plate-to-plate capacitance maximum	0.015 pF	—

APPLICATION**PARAMETER****PUBLISHED VALUE****CONDITION / NOTE**

Application

RF amplifier / frequency multiplier —