



ELECTRONIC TUBE REFERENCE

7738

Power - Triode Single (under 10W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

High-mu miniature power triode designed for continuous Class C RF amplifier service. Its 5 W plate dissipation and useful operation to about 200 MHz make it a compact VHF transmitting or driver tube.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 225 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0095 S
AMPLIFICATION FACTOR	33
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	5 W
MAXIMUM CATHODE CURRENT	40 mA
<i>Published source values promoted where applicable; additional source values retained as parameters.</i>	

High-mu miniature triode for continuous Class-C RF amplifier service around 200 MHz.

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	225 mA	—
Maximum useful frequency	200 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage tolerance	+/-0.6 V	—
Plate voltage maximum	330 V	ClassC
Plate dissipation maximum	5 W	ClassC
Plate input maximum	7.5 W	ClassC
Cathode current maximum	40 mA	ClassC
Grid current maximum	10 mA	ClassC
Negative grid voltage maximum	-50 V	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Continuous Class-C RF amplifier	—

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