



ELECTRONIC TUBE REFERENCE

322

Voltage Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Screen-grid tetrode intended for receiver voltage amplification, detector, oscillator, or general Class-A service as documented by the manufacturer.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	6.3 V / 950 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
TRANSCONDUCTANCE	0.0005 S
MAXIMUM PLATE VOLTAGE	180 V
MAXIMUM SCREEN VOLTAGE	67.5 V
MAXIMUM PLATE DISSIPATION	15 W
<i>Promoted fields populated from explicitly published ratings/characteristics; service-specific data retained as parameters.</i>	

The 322 is a screen-grid amplifier described in the Cunningham Radio Tube Manual for detector, amplifier, oscillator, rectifier, or power-output service as applicable to the type.



SOURCE OPERATING CONDITIONS

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	3.3 V	Published nominal
Heater/filament current	132 mA	Published nominal
Transconductance	500 μ S	Published characteristic



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 Machlette Laboratories

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

1971 MACHLETTE LABORATORIES

Section 1 · Tetrode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
The ML	322 mA	The ML-322 is an ultra-high-frequency diode of the ring-type seals, making the tube ideally suited to cavity-type
Heater Voltage	6.3 V	Heater Voltage . 6.3 Volts
Heater Current at [1]	6.3 V	Heater Current at 6.3 volts, approximate . .95 Amps
Heater Current at [2]	95 V	Heater Current at 6.3 volts, approximate . .95 Amps
Heater Heating Time, minimum (Before Applying Plate Voltage) »	60 s	Heater Heating Time, minimum (Before Applying Plate Voltage) » 60 Seconds

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interelectrode Capacitance	3.5 pF	Interelectrode Capacitance 3.5 uuf
Maximum Seal Temperature	160 mA	Maximum Seal Temperature .. 160 °C
Peak Plate Current e	600 mA	Peak Plate Current e 600 mAdc
Average Plate Current	100 mA	Average Plate Current 100 mAdc
Average Plate Dissipation	15	Average Plate Dissipation ... 15 wates®
*Plate dissipation up to	100 mA	*Plate dissipation up to 100 watts may be obtained with forced-air cooling.