ELECTRONIC TUBE REFERENCE

YL1058

Power - Tetrode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Coaxial forced-air-cooled metal-ceramic tetrode intended for television sound transmitters and linear two-tone operation. Its high transconductance and multi-kilowatt dissipation capability support substantial VHF/UHF power while preserving linearity for combined-signal service.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	–
NOMINAL HEATER	3.6 V / 19 A	**PARALLEL HEATER**	– / –
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Tetrode

TRANSCONDUCTANCE	0.055 S
AMPLIFICATION FACTOR	11
MAXIMUM PLATE VOLTAGE	3600 V
MAXIMUM SCREEN VOLTAGE	650 V
MAXIMUM PLATE DISSIPATION	2200 W
MAXIMUM SCREEN DISSIPATION	30 W
MAXIMUM GRID DISSIPATION	5 W
MAXIMUM CATHODE CURRENT	1.2 A

Coaxial forced-air-cooled metal-ceramic transmitter tetrode for TV sound transmitters and two-tone service.

SOURCE OPERATING CONDITIONS

1963 Siemens

SOURCE PDF

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

1963 SIEMENS

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Typical Plate Voltage	**3000 V**	Transconductance test point
Typical Screen Voltage	**500 V**	Transconductance test point
Typical Plate Current	**500 mA**	Transconductance test point

CAPACITANCE		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
CathodeControlGridCapacitance	**38–46 pF**	Nominal
CathodeScreenGridCapacitance	**1.9–2.5 pF**	Nominal
ControlGridScreenGridCapacitance	**56–64 pF**	Nominal

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
OutputPowerTwoTone	**1.2 + 0.24 kW**	TV sound transmitter two-tone; 170-230 MHz
OutputPowerTwoToneUHF	**0.84 + 0.17 kW**	TV sound transmitter two-tone; 470-860 MHz

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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