



ELECTRONIC TUBE REFERENCE

YL1050

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

Forced-air-cooled metal-ceramic transmitting tetrode for linear, Class C RF, and television transmitter stages. It combines high transconductance with roughly 1.6 kW plate dissipation and operation extending into the lower-gigahertz region.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 23 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
TRANSCONDUCTANCE	0.055 S
AMPLIFICATION FACTOR	12
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM SCREEN VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	1600 W
MAXIMUM SCREEN DISSIPATION	30 W
MAXIMUM GRID DISSIPATION	10 W
MAXIMUM CATHODE CURRENT	1.3 A

Forced-air-cooled metal-ceramic tetrode for frequencies to about 1.25 GHz, suited to class-AB linear, class-C power and television transmitter stages.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Siemens

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

1963 SIEMENS

Section 1 · Tetrode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FrequencyLimit	1250 MHz	—
Power Output	1000 W	60 MHz; Class AB linear amplifier; one tone

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Plate Voltage	2000 V	—
Typical Screen Voltage	500 V	—
Typical Plate Current	1 A	—

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
CathodeControlGridCapacitance	40 pF	—
CathodeScreenGridCapacitance	1.4 pF	—
ControlGridScreenGridCapacitance	43 pF	—
ScreenGridAnodeCapacitance	11 pF	—

TUBE TINKER

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and their source documents.

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