

ELECTRONIC TUBE REFERENCE

YL1042

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Compact forced-air-cooled metal-ceramic planar tetrode for commercial communications transmitters. Low grid-to-plate capacitance enables linear RF amplification to roughly 2 GHz, while published single-sideband conditions demonstrate useful transmitter output from the small structure.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.02 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	130 W
MAXIMUM SCREEN DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	180 mA

Very small forced-air-cooled metal-ceramic planax tetrode for frequencies to about 2 GHz and commercial communication service.

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	2000 MHz	—
Power Output	55 W	Linear RF power amplifier, SSB; 60 MHz; Class AB; one tone

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Plate Voltage	1000 V	—
Typical Screen Voltage	200 V	—
Typical Plate Current	100 mA	—

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid Cathode Capacitance	9 pF	—
GridScreenCapacitance	15 pF	—
ScreenPlateCapacitance	3.5 pF	—
GridPlateCapacitance	0.03 pF	—

TUBE TINKER

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and their source documents.

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