



ELECTRONIC TUBE REFERENCE

YL1490

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

Exceptionally high-power coaxial metal-ceramic transmitting tetrode incorporating a vapor-cooling boiler. Intended for transmitter and audio-frequency modulator duty, it combines extremely high transconductance with approximately 200 kW plate dissipation for very large installations.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.2 V / 1025 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.2 S
AMPLIFICATION FACTOR	4.3
MAXIMUM PLATE VOLTAGE	15000 V
MAXIMUM SCREEN VOLTAGE	2200 V
MAXIMUM PLATE DISSIPATION	200000 W
MAXIMUM SCREEN DISSIPATION	6600 W
MAXIMUM GRID DISSIPATION	1400 W
MAXIMUM CATHODE CURRENT	50 A

Very-high-power coaxial metal-ceramic vapor-cooled tetrode with integrated boiler for transmitter and AF modulator 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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
EmissionCurrent	380 A	UA = UG2 = UG1 = 700 V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
CarrierPower	270 kW	Class C; <=30 MHz
Typical Plate Voltage	12.5 kV	Class C
Typical Screen Voltage	1200 V	Class C
Typical Plate Current	28 A	Class C
Efficiency	77 percent	Class C
AFOutputPower	350 kW	Class B; two tubes push-pull

TUBE TINKER

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and their source documents.

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