



ELECTRONIC TUBE REFERENCE

YL1056

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

Coaxial forced-air-cooled metal-ceramic tetrode for television vision and sound transmitter finals and translator equipment. Its high-power VHF/UHF operation supports both modulated vision service and sound-carrier amplification in professional broadcast transmitters.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	3.8 V / 19.5 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	3500 V
MAXIMUM SCREEN VOLTAGE	650 V
MAXIMUM PLATE DISSIPATION	2000 W
MAXIMUM SCREEN DISSIPATION	30 W
MAXIMUM GRID DISSIPATION	5 W
MAXIMUM CATHODE CURRENT	1.1 A

Coaxial forced-air-cooled metal-ceramic transmitter tetrode for TV vision and sound transmitter final stages and translators.

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
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
OutputPowerVision	1 kW	TV vision transmitter; 170-230 MHz
OutputPowerSound	1.7 kW	TV sound transmitter; 170-230 MHz
PowerGainVision	18.5— dB	TV vision transmitter; 170-230 MHz

TUBE TINKER

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

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