

ELECTRONIC TUBE REFERENCE

QC0515

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TETRODE

Directly heated screen-grid transmitting tetrode designed for short-wave RF amplification. Philips documentation provides filament data, capacitances, limiting ratings, and representative RF operating conditions.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 1.1 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.0015 S
AMPLIFICATION FACTOR	3
MAXIMUM PLATE VOLTAGE	500 V
MAXIMUM SCREEN VOLTAGE	125 V
MAXIMUM PLATE DISSIPATION	15 W
MAXIMUM SCREEN DISSIPATION	6 W
MAXIMUM CATHODE CURRENT	75 mA
Published transmitting-tube ratings and principal characteristics promoted; additional RF operating points retained as parameters.	

Directly heated screen-grid transmitting tetrode for short-wave RF amplification. The supplied Philips source was read for heater or filament data, capacitances, limiting ratings, and representative RF/television operating conditions, with variant-sheet cross-references preserved.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

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

1999 PHILIPS E-Z

Section 1 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	4 V	—
Heater/filament current	1.1 A	—
Transconductance	1500 μ S	—
Screen-grid amplification factor	3	—
Maximum transconductance	2500 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate/anode voltage	500 V	—
Maximum screen-grid voltage	125 V	—
Maximum plate/anode dissipation	15 W	—
Maximum screen-grid dissipation	6 W	—
Operating plate voltage	500 V	ClassC;Telegraphy;15m
RF output power	15 W	ClassC;Telegraphy;15m
Operating plate voltage	500 V	ClassC;PlateModulation;15m
RF output power	8.5 W	ClassC;PlateModulation;15m
Maximum screen-grid dissipation	6 W	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate/anode capacitance	14.5 pF	—
Control-grid capacitance	13.7 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-grid capacitance	0.004 pF	—

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker