

ELECTRONIC TUBE REFERENCE

QB52000

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Transmitting power tetrode designed for RF amplification, linear/SSB service, oscillation, modulation, broadcasting, or frequency multiplication.

GENERAL CHARACTERISTICS

BASE DESIGNATION	GIANT 5P	BASE PINS	–
NOMINAL HEATER	7.5 V / 22.6 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.01 S
AMPLIFICATION FACTOR	6.1
MAXIMUM PLATE VOLTAGE	5500 V
MAXIMUM SCREEN VOLTAGE	800 V
MAXIMUM PLATE DISSIPATION	800 W
MAXIMUM SCREEN DISSIPATION	120 W
MAXIMUM CATHODE CURRENT	700 mA
Published transmitting-tube ratings and principal characteristics promoted; additional RF operating points retained as parameters.	

Directly heated power tetrode for AM and single-sideband amplifier service. 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	7.5 V	—
Heater/filament current	22.6 A	—
Transconductance	10000 μ S	—
Screen-grid amplification factor	6.1	—
Typical plate voltage	4000 V	—
Typical screen-grid voltage	600 V	—
Typical plate current	200 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate/anode voltage	5500 V	—
Maximum screen-grid voltage	800 V	—
Maximum plate/anode dissipation	800 W	—
Maximum screen-grid dissipation	120 W	—
Operating plate voltage	5000 V	ClassC;Telegraphy;30MHz
RF output power	2400 W	ClassC;Telegraphy;30MHz
Maximum anode input power	3500 W	ClassC

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate/anode capacitance	9.5 pF	—
Control-grid capacitance	47.6 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-grid capacitance	0.1 pF	—

TUBE TINKER

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

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