



ELECTRONIC TUBE REFERENCE

TC0525

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Directly heated Philips transmitting triode for oscillator, RF amplifier, and Class B audio service. With about 660 V plate capability and 40 W dissipation, it provides useful medium-power transmitter performance.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 2.2 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.0022 S
MAXIMUM PLATE VOLTAGE	660 V
MAXIMUM PLATE DISSIPATION	40 W
MAXIMUM CATHODE CURRENT	100 mA

Directly heated transmitting triode for oscillator, RF amplifier and Class-B audio service. The supplied Philips source was read for heater or filament data, ratings, characteristics, capacitances, and representative operating conditions.

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 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	4 V	—
Heater/filament current	2.2 A	—
Transconductance	2200 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	660 V	—
Maximum plate dissipation	40 W	—
Maximum cathode current	100 mA	—
Operating plate voltage	600 V	ClassC;Telegraphy;150m
Operating plate current	93 mA	ClassC;Telegraphy;150m
Output power	35 W	ClassC;Telegraphy;150m

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate/anode capacitance	2.7 pF	—
Grid capacitance	6.2 pF	—
Plate-grid capacitance	6.6 pF	—