



ELECTRONIC TUBE REFERENCE

TC175

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Transmitting power triode intended for RF amplification, oscillator, modulation, or industrial generator service. Manufacturer documentation emphasizes professional radio-frequency operation and substantial power handling.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	10 V / 1.6 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	5000 Ω
TRANSCONDUCTANCE	0.005 S
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	1500 V
MAXIMUM PLATE DISSIPATION	75 W
MAXIMUM CATHODE CURRENT	200 mA

Directly heated transmitting triode for oscillator and RF amplifier 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	10 V	—
Heater/filament current	1.6 A	—
Transconductance	5000 μ S	—
Amplification factor	25	—
Plate resistance	5000 ohm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	1500 V	—
Maximum plate dissipation	75 W	—
Maximum cathode current	200 mA	—
Operating plate voltage	1500 V	ClassC;Telegraphy
Operating plate current	120 mA	ClassC;Telegraphy
Output power	115 W	ClassC;Telegraphy

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate/anode capacitance	4.6 pF	—
Grid capacitance	9.8 pF	—
Plate-grid capacitance	10.4 pF	—