



ELECTRONIC TUBE REFERENCE

TA18100

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-cooled very-high-power transmitting triode designed for broadcast output stages. Approximately 70 kW plate dissipation and 20 kV capability provide enormous continuous RF power for major broadcast transmitters.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	33 V / 207 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	45
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM PLATE DISSIPATION	70000 W
Water-cooled very-high-power transmitting triode for broadcast output stages	

TA18100 is a water-cooled very-high-power transmitting triode for broadcast output stages. The supplied Philips datasheet was read for filament data, limiting ratings, characteristic constants, operating classes, cooling requirements, and interelectrode capacitances where published.



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

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tested anode dissipation	85 kW	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament current	207 A	—

TUBE TINKER

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