



ELECTRONIC TUBE REFERENCE

TBH614

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-cooled industrial RF power triode with directly heated thoriated-tungsten filament. Rated for approximately 15 kW plate dissipation and 8 kV plate voltage for demanding industrial oscillator and amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 130 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.023 S
AMPLIFICATION FACTOR	17.5
MAXIMUM PLATE VOLTAGE	8000 V
MAXIMUM PLATE DISSIPATION	15000 W
Published RF triode characteristics and ratings; additional operating data retained in parameter rows.	

Industrial RF power triode; directly heated thoriated-tungsten filament. Water cooled. Published sheet includes filament, capacitance, characteristic, cooling, and application/rating data.

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
Anode voltage	6000 V	—
Anode current	2.5 A	—
Transconductance	23000 μ S	—
Amplification factor	17.5	—
Anode capacitance	1.2 pF	—
Grid capacitance	44.5 pF	—
Anode-grid capacitance	33.5 pF	—
Maximum anode voltage	8000 V	—
Maximum anode dissipation	15000 W	—

TUBE TINKER

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and their source documents.

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