



ELECTRONIC TUBE REFERENCE

RD12XH

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Forced-air-cooled Tesla transmitting triode with thoriated-tungsten filament for RF power amplification and industrial oscillators. Approximately 12 kW plate dissipation and 15 kV capability support substantial continuous RF power.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION 1 Triode	
MAXIMUM PLATE VOLTAGE	15000 V
MAXIMUM PLATE DISSIPATION	12000 W
MAXIMUM GRID DISSIPATION	500 W
MAXIMUM CATHODE CURRENT	2.3 A
Maximum anode voltage varies with frequency/service; 15 kV at ≤ 3 MHz, 9 kV at ≤ 30 MHz, 12 kV for oscillator service ≤ 3 MHz.	

Forced-air-cooled transmitting triode with thoriated-tungsten filament and 12 kW anode dissipation for RF power amplification and industrial oscillators up to 30 MHz.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Tesla

Published test conditions and operating points. Values on this page are preserved as reported by this source.

195X TESLA

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	10.5–21 V	Published range
Heater Current	53 A–60 A	Published range
Maximum Plate Voltage	15000 V	Highest published maximum rating
Maximum Plate Dissipation	12000 W	—
Maximum Frequency	30 MHz	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tesla Tubes

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1966 TESLA TUBES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	10.5–21 V	—
Heater current	53 A–60 A	—
Maximum anode current	2.3 A	—
Maximum grid current	500 mA	—
Maximum frequency	30 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-cathode capacitance	30 pF	—
Anode-cathode capacitance	3 pF	—
Anode-grid capacitance	22 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	40–50	—
Plate resistance	4500–5200 ohm	—
Emission current	18 A	—

TUBE TINKER

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and their source documents.

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