



ELECTRONIC TUBE REFERENCE

RD150YH

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Very-high-power water-cooled Tesla transmitting triode with thoriated-tungsten filament. Approximately 150 kW plate dissipation, 20 kV capability, and high anode current support enormous RF transmitter systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	18.5 V / —	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM PLATE DISSIPATION	150000 W
MAXIMUM GRID DISSIPATION	8000 W
MAXIMUM CATHODE CURRENT	20 A
Maximum anode voltage also has lower condition-specific limits for modulated/higher-frequency service; preserved in parameters/notes.	

Water-cooled thoriated-tungsten transmitting triode with 150 kW anode dissipation for high-frequency power amplification 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	18.22–18.77 V	Published range
Heater Current	335 A–365 A	Published range
Maximum Plate Voltage	20000 V	Highest published maximum rating
Maximum Plate Dissipation	150000 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	18.5 V	—
Heater current	335 A–365 A	—
Maximum anode current	20 A	—
Maximum grid current	4.5 A	—
Maximum frequency	30 MHz	—
Cooling-water flow	150 L/min	1.5 kg/cm2 pressure
Forced-air flow	6 m3/min	120 mm water-column pressure

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum heater voltage	18.22 V	—
Maximum heater voltage	18.77 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-cathode capacitance	101 pF	—
Anode-cathode capacitance	4.6 pF	—
Anode-grid capacitance	56 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	40–48	—
Plate resistance	1800–2500 ohm	—
Emission current	130 A	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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