ELECTRONIC TUBE REFERENCE

RD150YB

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Massive water-cooled Tesla transmitting triode for very-high-power RF amplification, including modulated service. Approximately 150 kW plate dissipation and 20 kV capability support enormous professional transmitter output.

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

SECTION1 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 directly heated transmitting triode with 150 kW anode dissipation for high-frequency power amplification, including modulated service up to 30 MHz.

SOURCE OPERATING CONDITIONS

195X Tesla

SOURCE PDF

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	31.5–34 V	Published range
Heater Current	440 A–470 A	Published range
Maximum Plate Voltage	20000 V	Highest published maximum rating
Maximum Plate Dissipation	150000 W	—
Maximum Frequency	30 MHz	—

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1966 Tesla Tubes

SOURCE PDF

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	31.5–34 V	—
Heater current	440 A–470 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	160 mm water-column pressure

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-cathode capacitance	**101 pF**	—
Anode-cathode capacitance	**6 pF**	—
Anode-grid capacitance	**51 pF**	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	**40–48**	—
Plate resistance	**800–1200 ohm**	—
Emission current	**100 A**	—

Tube Tinker

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

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