



ELECTRONIC TUBE REFERENCE

RD75YB

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Power transmitting triode intended for RF amplification, oscillation, or related professional service. Manufacturer documentation emphasizes radio-frequency operation, useful power output, and transmitter or industrial applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	31.5 V / 235 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	2250 Ω
AMPLIFICATION FACTOR	48
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM PLATE DISSIPATION	75000 W
MAXIMUM GRID DISSIPATION	3000 W
<i>Published characteristic ranges are preserved in parameters when no single scalar is printed.</i>	

Directly heated 75 kW transmitting triode for RF power amplifier or oscillator service up to 3 MHz; water-cooled anode with forced-air cooling of the envelope and filament terminals.



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

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-cathode capacitance	65 pF	Published interelectrode capacitance
Plate-to-cathode capacitance	7 pF	Published interelectrode capacitance
Plate-to-grid capacitance	45 pF	Published interelectrode capacitance

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	3 MHz	Published maximum/rated frequency
Heater data	30-33 V; 220-250 A	Published heater voltage/current range or limit

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor range	44-52	Published range
Plate resistance range	2-2.5 kOhm	Published range



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	30–33 V	—
Heater current	220 A–250 A	—
Maximum plate voltage	20000 V	—
Maximum plate dissipation	75000 W	—
Maximum control-grid dissipation	3000 W	—
Maximum frequency	3 MHz	—
Maximum plate voltage	17000 V	Oscillator; $f < 3$ MHz

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-cathode capacitance	65 pF	—
Anode-cathode capacitance	7 pF	—
Anode-grid capacitance	45 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	44–52	Published range
Plate resistance	2000–2500 ohm	Published range

TUBE TINKER

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and their source documents.

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