



ELECTRONIC TUBE REFERENCE

RD12YB

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-and-air-cooled Tesla transmitting triode for Class C RF power amplification. Approximately 12 kW plate dissipation and 12 kV capability support substantial professional transmitter service through the HF range.

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	12000 V
MAXIMUM PLATE DISSIPATION	12000 W
MAXIMUM GRID DISSIPATION	300 W
MAXIMUM CATHODE CURRENT	2 A
Published maximum ratings and characteristics promoted from the approved source.	

Water-and-air-cooled transmitting triode with 12 kW anode dissipation for Class-C RF 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	18.5–20.6 V	Published range
Heater Current	66 A–74 A	Published range
Maximum Plate Voltage	12000 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	18.5–20.6 V	—
Heater current	66 A–74 A	—
Maximum anode current	2 A	—
Maximum grid current	300 mA	—
Maximum frequency	30 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-cathode capacitance	26.6 pF	—
Anode-cathode capacitance	1.5 pF	—
Anode-grid capacitance	29.5 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	38–48	—
Plate resistance	4400–6000 ohm	—
Emission current	11 A	—