



ELECTRONIC TUBE REFERENCE

RD50XH

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	19 V / 130 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	18000 V
MAXIMUM PLATE DISSIPATION	50000 W
MAXIMUM GRID DISSIPATION	3000 W
Published characteristic ranges are preserved in parameters when no single scalar is printed.	

The TESLA RD50XH tube is a directly Die TESLA-Rohre RD50XH ist eine direkt heated triode of 50 kW anode dissipation, geheizte Triode mit 50 kW Anodenverlust- intended for use as an RF power amplifier leistung, bestimmt zur Verwendung als or oscillator at frequencies up to 3 Mc/s. Hochfrequenz-Kraftverstärker | oder - als Oszillator für Frequenzen bis zu 3 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

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	19 V	Nominal or midpoint of published heater range
Heater current	130 A	Nominal or midpoint of published heater range

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode dissipation	50000 W	Published tube rating

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interelectrode capacitance C _{gl/k}	65 pF	Published source value



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	19 V	—
Heater current	125 A–135 A	—
Maximum plate voltage	18000 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	50000 W	—
Maximum control-grid dissipation	3000 W	—
Maximum frequency	3 MHz	—
Maximum plate voltage	15000 V	Oscillator; $f < 1$ MHz
Maximum plate voltage	15000 V	Anode modulation; $f < 3$ 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