

ELECTRONIC TUBE REFERENCE

RD5YF

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	11 V / 125 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.01 S
AMPLIFICATION FACTOR	19
MAXIMUM PLATE VOLTAGE	8500 V
MAXIMUM PLATE DISSIPATION	5000 W
Published characteristic ranges are preserved in parameters when no single scalar is printed.	

The TESLA RD5YF tube is a water-cooled Die TESLA-Rohre RD5YF ist eine wasser- short-wave triode of 5 kW anode dissipa- gekühlte Kurzwellentriode mit 5 kW Ano- tion, suitable for application as an oscillator, denverlustleistung, geeignet zur Verwen- AF or RF power amplifier at frequencies up dung als Oszillator und Niederfrequenz- to 100 Mc/s, and as a class C RF modulated sowie Hochfrequenz-Kraftverstärker | fûur power amplifier. Frequenzen bis zu 100 MHz und als Klasse C Verstärker der modulierten HF-Leistung.



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	11 V	Nominal or midpoint of published heater range
Heater current	125 A	Nominal or midpoint of published heater range

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode dissipation	5000 W	Published tube rating

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interelectrode capacitance Ca/k	3 pF	Published source value
Interelectrode capacitance Calg	18.5 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	11 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	115 A–135 A	—
Maximum plate voltage	8500 V	—
Maximum plate dissipation	5000 W	—
Maximum frequency	100 MHz	—
Maximum plate voltage	5500 V	Oscillator; $f < 100$ MHz

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-cathode capacitance	23.5 pF	—
Anode-cathode capacitance	3 pF	—
Anode-grid capacitance	18.5 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	19–21	Published range
Plate resistance	2000–2500 ohm	Published range
Transconductance	10000 uS	—

TUBE TINKER

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