



ELECTRONIC TUBE REFERENCE

RD20XL

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Tesla coaxial shortwave power triode for RF oscillators, FM broadcast transmitters, television linear amplifiers, and industrial generators. Its 20 kW anode dissipation supports economical operation to about 100 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	9.5 V / 180 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.045 S
AMPLIFICATION FACTOR	45
MAXIMUM PLATE DISSIPATION	20000 W
<i>Promoted fields populated from published maximum-ratings/characteristic tables where OCR semantics were unambiguous.</i>	

The TESLA RD20XL tube is an air-cooled Die TESLA-Rohre RD20XL ist eine luft- coaxial short-wave triode of 20 kW anode gekühlte, koaxiale Kurzwellentriode : mit dissipation, suitable for use as an oscillator 20 kW Anodenverlustleistung, geeignet zur or RF power amplifier especially in short- Verwendung als Oszillator und Hochfre- wave FM broadcast transmitters, where it guenz-Kraftverstärker, insbesondere n operates economically at frequencies up to Kurzwellen-Rundfunksendern mit Frequenz- 100 Mc/s; it is suitable also for application modulation, wo sie bis zu einer Frequenz as a class B linear amplifier in TV transmit- von 100 MHz wirtschaftlich arbeitet; sehr ters, in industrial generators, etc. gut geeignet ist die Rohre auch zum Einsatz als linearer Klasse-B-Verstiärker in Fernseh- sendern, als Oszillator in Industriegenera- toren u. a.



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	9.5 V	Nominal or midpoint of published heater range
Heater current	180 A	Nominal or midpoint of published heater range

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode dissipation	20000 W	Published tube rating

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interelectrode capacitance Ca/g	50 pF	Published source value
Interelectrode capacitance Cg/k	75 pF	Published source value

TUBE TINKER

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