

ELECTRONIC TUBE REFERENCE

RA7XL

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Air-cooled coaxial high-vacuum diode for recuperative service in RF power-amplifier outputs and high-voltage AC rectification. Rated for approximately 25 kV peak inverse voltage and 7 A average current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5.5 V / 90 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PLATE RESISTANCE	40 Ω
MAXIMUM PLATE VOLTAGE	10000 V
MAXIMUM PLATE DISSIPATION	2500 W
PEAK INVERSE VOLTAGE	25000 V
NOMINAL OUTPUT CURRENT	7 A
PEAK FORWARD CURRENT	20 A
Published values promoted where clearly readable; identical repeated sections compressed when applicable.	

Air-cooled coaxial high-vacuum rectifier diode intended as a recuperative diode in RF power-amplifier output stages and for high-voltage AC rectification.



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 · Rectifier

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	5.5 V	Published nominal value or midpoint of published range
Heater current	90 A	Published nominal value or midpoint of 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 · Rectifier

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	<90 A	—
Maximum heater voltage	6 V	—
Minimum heater voltage	5 V	—
Forced-air flow	3.5 m3/min	35 mm water-column pressure

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum emission current	30 A	—

TUBE TINKER

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and their source documents.

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