



ELECTRONIC TUBE REFERENCE

U1

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Water-cooled directly heated vacuum diode for high-voltage industrial-generator rectifiers, using an external copper anode and providing approximately 7 A DC output.

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 Rectifier	
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM PLATE DISSIPATION	20000 W
PEAK INVERSE VOLTAGE	55000 V
NOMINAL OUTPUT CURRENT	7 A

Water-cooled rectifying vacuum diode for high-voltage rectifiers in industrial generators. External OFHC-copper anode forms part of the envelope and is water cooled; directly heated tungsten cathode. Explicit co-designation of RA7YB printed in the approved source.



SOURCE OPERATING CONDITIONS

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 voltage	18–21 V	—
Heater current	110 A–130 A	—
Cooling-water flow	60 L/min	1.5 kg/cm2 pressure

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Emission current	20 A	—

TUBE TINKER

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