

ELECTRONIC TUBE REFERENCE

222A

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Western Electric directly heated water-cooled high-voltage rectifier for substantial industrial and communications supplies. Liquid cooling and a massive filament support demanding continuous high-voltage service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	21.5 V / 41 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	25000 V
PEAK FORWARD CURRENT	5 A
Promoted fields populated from explicitly published ratings/characteristics; service-specific data retained as parameters.	

The Western Electric 222A is a rectifier listed in the supplied catalog table. It is a water-cooled high-voltage rectifier.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 Amperex

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1953 AMPEREX

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average emission	7 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical output voltage	7500 V	SinglePhaseFullWave
Typical output current	3 A	SinglePhaseFullWave



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1956 Western Electric Tubes

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1956 WESTERN ELECTRIC TUBES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Anode Voltage	25000 V	Rectifier



1971 Machlette Laboratories

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1971 MACHLETTE LABORATORIES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
having maximum ratings of [1]	25 mA	having maximum ratings of 25 PKV inverse voltage and 5 since 1897. All paris are thoroughly processed by special
having maximum ratings of [2]	5 mA	having maximum ratings of 25 PKV inverse voltage and 5 since 1897. All paris are thoroughly processed by special
having maximum ratings of [3]	1897 mA	having maximum ratings of 25 PKV inverse voltage and 5 since 1897. All paris are thoroughly processed by special
Filament Current, approximate	41 A	Filament Current, approximate 41.0 amperes
Maximum Outgoing Water Temperature	75 mA	Maximum Outgoing Water Temperature 75 °C
Peak Inverse Anode Voltage .0	25000 V	Peak Inverse Anode Voltage .o 25000 volts
Peak Anode Current e	5 A	Peak Anode Current e 5.0 amperes
A	13011	A-13011 PLATE VOLTAGE a9
A	13010	A-13010 FILAMENT VOLTAGE

TUBE TINKER

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