



ELECTRONIC TUBE REFERENCE

2V500C

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Indirectly heated mercury-vapor half-wave rectifier for high-voltage, high-current power conversion, combining approximately 20 kV inverse-voltage capability with ampere-class average current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 11 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	20000 V
NOMINAL OUTPUT CURRENT	1.25 A
PEAK FORWARD CURRENT	5 A
<i>Mercury-vapour or high-voltage rectifier ratings promoted from the published maximum-ratings table.</i>	

Half-wave mercury-vapour rectifier; indirectly heated.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1946 Standard Telephone and Cables

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

1946 STANDARD TELEPHONE AND CABLES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Supply frequency	50 Hz	ChokeInputFilter



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1947 Standard Valves

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

1947 STANDARD VALVES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Output Voltage	6400 V	ChokeInputFilter 50Hz Circuit2 2Valves
Maximum DC Output Current	2.5 A	ChokeInputFilter 50Hz Circuit2 2Valves
Maximum DC Output Voltage	13000 V	ChokeInputFilter 50Hz Circuit3 4Valves
Maximum DC Output Current	2.5 A	ChokeInputFilter 50Hz Circuit3 4Valves
Maximum DC Output Voltage	9500 V	ChokeInputFilter 50Hz Circuit4 3Valves
Maximum DC Output Current	3.75 A	ChokeInputFilter 50Hz Circuit4 3Valves
Maximum DC Output Voltage	9500 V	ChokeInputFilter 50Hz Circuit5 6Valves
Maximum DC Output Current	7.5 A	ChokeInputFilter 50Hz Circuit5 6Valves
Maximum DC Output Voltage	18500 V	ChokeInputFilter 50Hz Circuit6 6Valves
Maximum DC Output Current	3.75 A	ChokeInputFilter 50Hz Circuit6 6Valves
MercuryVapour	1	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MinimumPreheatPeriodColdAmbient	30 min	AfterShipmentOrTransit

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker