

Oil-immersed directly heated high-vacuum rectifier for very-high-voltage supplies. Its rugged thoriated-tungsten filament construction is rated for approximately 125 kV peak inverse voltage and substantial anode current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 6.8 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	125000 V
Source-derived physical/electrical section.	

Westinghouse 7658 September 15, 1960 HIGH VACUUM RECTIFIER TYPE 7658 The type 7658 is a high-voltage, vacuum rectifier designed for service in oil-immersed applications. It features a thoriated-tungsten filament in a helicol design, to minimize risk of breakage, withstand electric field forces better, reduce anode-to-filament spacing for higher efficiency and permit more tolerance in permissible filament voltage variations. ELECTRICAL: MAXIMUM RATINGS: Thoriated Tungsten Filament Absolute Maximum Values Filament: Min. Bogey Max. Peak Inverse Anode Voltage. 125 max. Kilovolts Voltage 3.6 4.0 4.4 Volts Anode Current: Current 6.8 - - Amperes Peak . . v v i e e e 750 max. Ma, Seconds Average . . . o v v v n v o e e 150 max. Ma, MECHANICAL: 1. The dielectric value of the cooling oil must not be less than 250 Type of Cooling (Note 1) Oil Immersion KY peak per inch, Mounting Position Any Net Weight 8 Ounces Shipping Weight 4 Pounds AVERAGE FILAMENT-CURRE



SOURCE PDF

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

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
The type	7658	The type 7658 is a high-voltage, vacuum rectifier designed for service in oil-immersed applications. It features a
Filament: Min. Bogey Mox. Peak Inverse Anode Voltage	125	Filament: Min. Bogey Mox. Peak Inverse Anode Voltage. 125 max. Kilovalts
Voltage	4.4	Voltage 3.6 4.0 4.4 Volts Anode Current:
Cusrent	750	Cusrent 6.8 - - Amperes Peak . . v v i e e e e 750 max. Ma,
Seconds Average . . . o v v v n v o e e	150	Seconds Average . . . o v v v n v o e e 150 max. Ma,
2000 4°““‘	4	2000 4°““‘

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