



ELECTRONIC TUBE REFERENCE

HR8

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Indirectly heated high-voltage half-wave vacuum rectifier for EHT and related supplies. Its four-volt heater provides multi-kilovolt operation with greater current than smaller HR types.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 1.25 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	12500 V
NOMINAL OUTPUT CURRENT	50 mA
PEAK FORWARD CURRENT	350 mA
WARM-UP TIME	60 s
<i>Published Ferranti ratings and characteristics promoted where applicable; additional electrical, pulse, regulator, microwave, and operating data retained as parameters.</i>	

Indirectly heated half-wave high-voltage vacuum rectifier.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Ferranti

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

1963 FERRANTI

Section 1 · Rectifier

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	High-voltage half-wave rectifier	CapacitorInputFilter

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PIV no-load	14 kV	CapacitorInputFilter
PIV working	12.5 kV	CapacitorInputFilter
RMS input voltage maximum	5 kV	CapacitorInputFilter
Peak anode current maximum	350 mA	CapacitorInputFilter
Rectified current maximum	50 mA	CapacitorInputFilter
Reservoir capacitance maximum	1 uF	CapacitorInputFilter
Supply impedance minimum	4000 ohm	CapacitorInputFilter
Switching delay minimum	60 s	CapacitorInputFilter
Conditional PIV working	15 kV	CapacitorInputFilter
Conditional rectified current maximum	40 mA	CapacitorInputFilter
Conditional peak anode current maximum	300 mA	CapacitorInputFilter

TUBE TINKER

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