



ELECTRONIC TUBE REFERENCE

HR2

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Miniature indirectly heated high-voltage half-wave rectifier for extra-high-tension supplies. Its compact construction provides multi-kilovolt output at low current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 500 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	13000 V
NOMINAL OUTPUT CURRENT	5 mA
PEAK FORWARD CURRENT	40 mA
WARM-UP TIME	30 s
<i>Published Ferranti ratings and characteristics promoted where applicable; additional electrical, pulse, regulator, microwave, and operating data retained as parameters.</i>	

Miniature indirectly heated half-wave high-voltage rectifier for EHT supplies.

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	15.5 kV	CapacitorInputFilter
PIV working	13 kV	CapacitorInputFilter
RMS input voltage maximum	5.5 kV	CapacitorInputFilter
Peak anode current maximum	40 mA	CapacitorInputFilter
Rectified current maximum	5 mA	CapacitorInputFilter
Reservoir capacitance maximum	0.025 uF	CapacitorInputFilter
Supply impedance minimum	50000 ohm	CapacitorInputFilter
Switching delay minimum	30 s	CapacitorInputFilter
Operating frequency maximum	100 kHz	CapacitorInputFilter