

ESU115

HALF-WAVE MERCURY VAPOUR RECTIFIER

GENERAL

The ESU115 is a directly heated high voltage half-wave mercury vapour rectifier, which has been designed for use in radio relay amplifiers.

RATING

Filament Voltage (volts)	V_f	4.0
Filament Current (amps)	I_f	2.7
Maximum Peak Inverse Voltage (kV)	P.I.V.(max)	6.5
Maximum Peak Anode Current (amps)	$I_a(pk)_{max}$	1.25
Maximum Mean Anode Current (amps)	$I_a(av)_{max}$	0.25
Voltage Drop (approx) (volts)	V_{drop}	16
Condensed Mercury Temperature Range ($^{\circ}C$)		20 to 60
Heating Time (seconds)		60

DIMENSIONS

Maximum Overall Length	(mm)	139
Maximum Diameter	(mm)	48
Approximate Nett Weight	(ozs)	3
Approximate Packed Weight	(ozs)	3½

MOUNTING POSITION—Vertical, base downwards.

TYPICAL OPERATION

A Biphase Half Wave Rectifier using two valves can give an output of 500 mA at 2.0 kV.

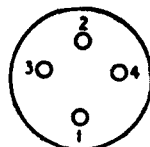
NOTES

The H.T. supply to the anode should not be switched on until the specified filament heating time has elapsed. When newly installed or after a period of disuse the filament should be run at normal temperature for 15 minutes before the application of the H.T. voltage.

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BULB—Clear.

BASE—British 4 Pin (B4).



Viewed from free end of pins.

CAP—CT2.

VALVEHOLDER—EDISWAN CLIX VH300/4, VH42/4.

TOP CAP CONNECTOR—EDISWAN CLIX TC430.

CONNECTIONS

Pin 1	No Connection	NC
Pin 2	No Connection	NC
Pin 3	Filament	f
Pin 4	Filament	f
Top Cap	Anode	a