

# EDISWAN

## ESU115

ESU115

### HALF-WAVE MERCURY VAPOUR RECTIFIER

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#### 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 (°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.

ESUI15

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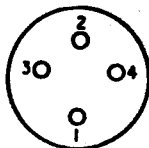
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BULB—Clear.

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

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