



ESU103
HALF-WAVE XENON RECTIFIER
TENTATIVE

GENERAL

The ESU103 is a directly heated half-wave Xenon Rectifier requiring a heating delay time of 10 seconds. Two rectifiers in a Full-wave circuit will give an output of 0.5 amps at 3.2kV or 1.0 amp at 1.6kV. This rectifier may be operated in the ambient temperature range -50°C to $+75^{\circ}\text{C}$.

RATING

Filament Voltage (volts) V_f		2.5	
Filament Current (amps) I_f		5.0	
Maximum Peak Inverse Voltage (kV)	PIV (max)	5.0	10.0
Maximum Peak Anode Current (amps)	$i_a(\text{pk})_{\text{max}}$	2.0	1.0
Maximum Mean Anode Current (amps)	$i_a(\text{av})_{\text{max}}$	0.5	0.25
Maximum Voltage Drop (volts)			12.0
Minimum Heating Time (secs)			10
Ambient Temperature Range ($^{\circ}\text{C}$)			-55 to $+75$

DIMENSIONS

Maximum Overall Length	(mm)	160
Maximum Seated Height	(mm)	144
Maximum Diameter	(mm)	52
Approximate Nett Weight	(ozs)	4
Approximate Packed Weight	(ozs)	8

MOUNTING POSITION—Unrestricted

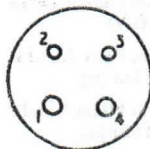
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TYPICAL OPERATION—Full-wave (2 Valves)

Peak Inverse Voltage Rating (kV)	PIV(max)	5	10
Output Voltage (kV)	V_{out}	1.6	3.2
Output Current (amps)	I_{out}	1.0	0.5

TOP CAP—CT3

BASE—UX4 with Bayonet



Viewed from free end of pins.

VALVE HOLDER—Ediswan Clix VH262/4

TOP CAP CONNECTOR—Ediswan Clix TC433

CONNECTIONS

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