11A1

LOW MU TRIODE

Indirectly heated

GENERAL

The 11A1 is a miniature based triode intended for use as a series stabiliser valve. It has a maximum cathode current of 120mA and a maximum anode dissipation of 15 watts. These valves are suitable for operation in parallel.

RATING

Heater Voltage (volts)	V_h	6.3
Heater Current (amps)	I_h	0.95
Maximum Anode Voltage (volts)	$V_{a(max)}$	300
Maximum Anode Dissipation (watts)	$P_{a(max)}$	15
Maximum Cathode Current (mA)	$I_{k(max)}$	120
Maximum Heater/Cathode Voltage (volts)	$V_{h-k(max)}$	250
Mutual Conductance (mA/V)	g_m	12*
Amplification Factor	μ	4.5*
Anode Impedance (ohms)	r_a	375*

* Measured at $V_a = 150V$; $I_a = 100mA$

INTER-ELECTRODE CAPACITANCES (pF)†

Anode/Grid	c_{a-g}	9.0
Anode/Cathode	c_{a-k}	4.5
Grid/Cathode	c_{g-k}	8.5

† Measured without external shield

DIMENSIONS

Maximum Overall Length	(mm)	65
Maximum Diameter	(mm)	22
Maximum Seated Height	(mm)	58
Approximate Nett Weight	(ozs)	$\frac{1}{2}$
Approximate Packed Weight	(ozs)	$\frac{3}{4}$

Associated Electrical Industries Limited

Electronic Components Division

Tel.: GERrard 9797

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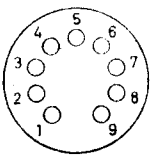
MOUNTING POSITION—Unrestricted

TYPICAL OPERATION—Series Regulator (Two valves in parallel)

Input Voltage (volts)	V_{in}	360
Output Voltage (volts)	V_{out}	210
Output Current (total) (mA)	I_{out} (tot)	200
Stabilisation for ± 7% input (%)		0.2

Small resistors should be inserted in the anode and cathode leads of each valve for balancing purposes.

BASE—Noval (B9A)



Viewed from free end of pins.

CONNECTIONS

Pin 1	Internal Connection	IC
Pin 2	Cathode	k
Pin 3	Internal Connection	IC
Pin 4	Heater	h
Pin 5	Heater	h
Pin 6	Grid	g
Pin 7	Internal Connection	IC
Pin 8	Internal Connection	IC
Pin 9	Anode	a

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