SUBMINIATURE ELECTROMETER TETRODE

ME1402

Subminiature electrometer tetrode with a grid current of 3×10^{-15}A.

FILAMENT

Suitable for d.c. operation only.

V_f	1.25	V
I_f	13	mA

MOUNTING POSITION

Any

CAPACITANCES

C_{a-g}	2.5	pF
C_{in}	0.3	pF
C_{out}	0.8	pF

CHARACTERISTICS (All voltages are with respect to the negative end of the filament)

Measured at $V_f = 1.25V$, $V_a = 4.5V$, $I_a = 20\mu A$, $I_{g1} = 250\mu A$ g_2 is the control-grid, g_1 being used as an accelerator grid.

	Min.	*Av.*	*Max.*	
V_{g1}	2.0	3.0	4.0	V
V_{g2}	−2.0	−3.2	−4.5	V
$g_{m(g2-a)}$	10	17	24	μA/V
$\mu_{(g2-a)}$	0.7	1.2	1.4	
*I_{g2}	—	-2.5×10^{-15}	-6.0×10^{-15}	A
†V_{g2} (crossover)	—	−1.75	—	V

*The quoted grid current characteristics will only be obtained if the tube is operated in complete darkness.

†'Crossover' is the point at which the polarity of the grid current (I_{g2}) is reversed.

LIMITING VALUES

V_a max.	10	V
I_k max.	300	μA ←
V_f limits	1.1 to 1.5	V

OPERATING NOTES

1. In order to avoid excessive drift of characteristics the filament voltage must be applied before the anode voltage.
2. To avoid contamination of the glass, the valve should not be removed from its protective envelope until it is fitted into the equipment.
3. Direct soldered connections to the leads of the valve must be at least 13mm from the seal and any bending of the leads must be at least 1.5mm from the seal.

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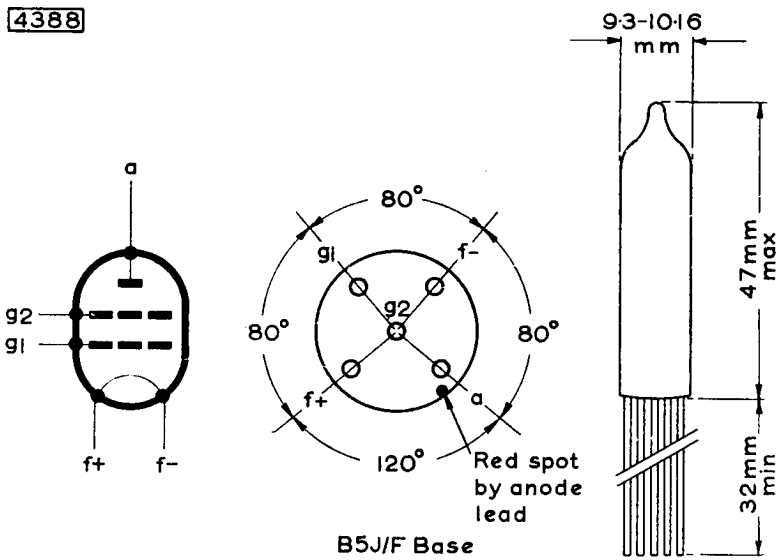

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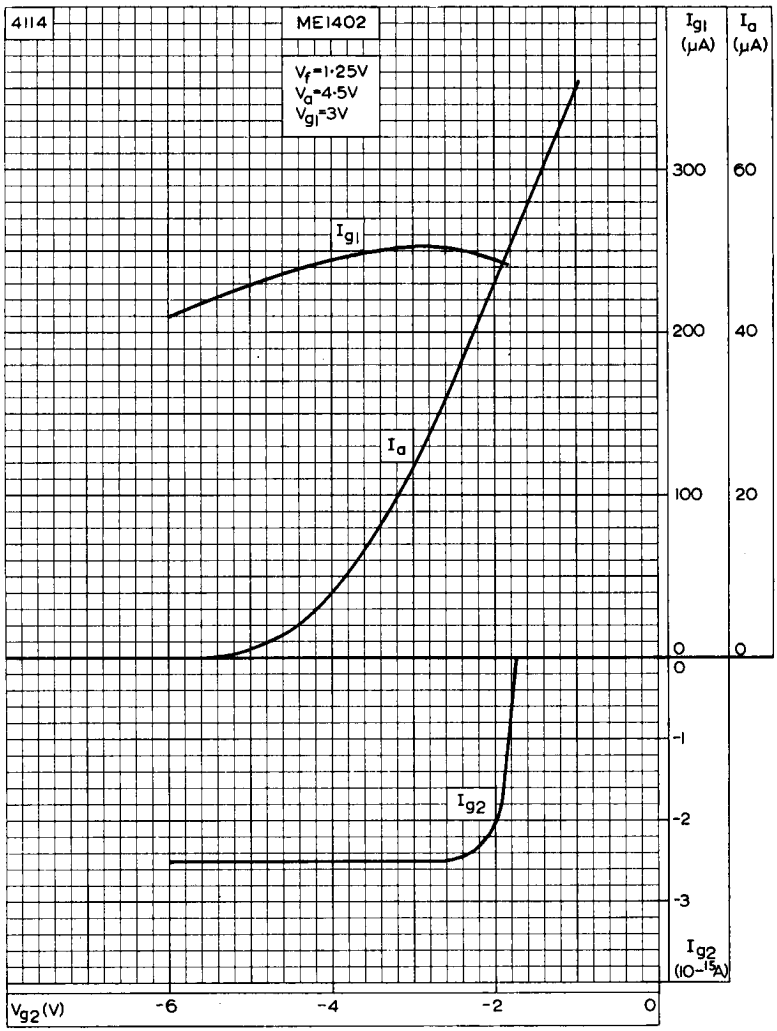

ANODE, ACCELERATOR GRID (g_1) AND CONTROL-GRID (g_2) CURRENTS PLOTTED AGAINST CONTROL-GRID VOLTAGE

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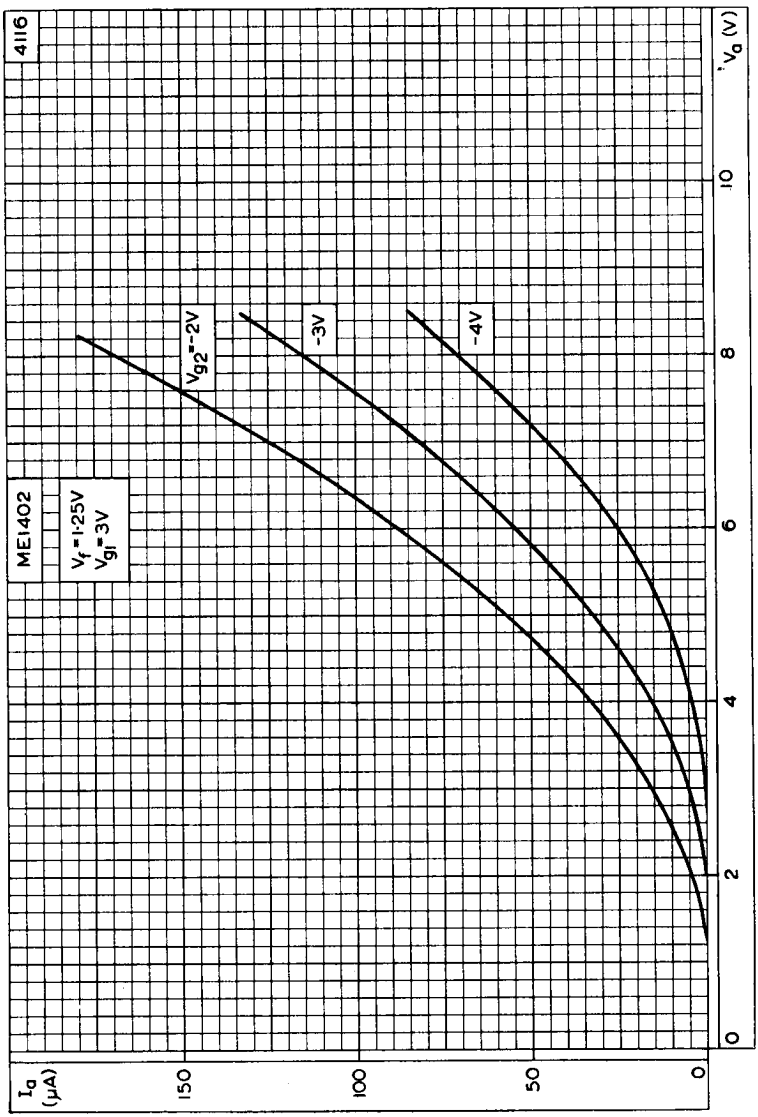

ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID (g_2) VOLTAGE AS PARAMETER AT ACCELERATOR GRID (g_1) VOLTAGE OF 3V

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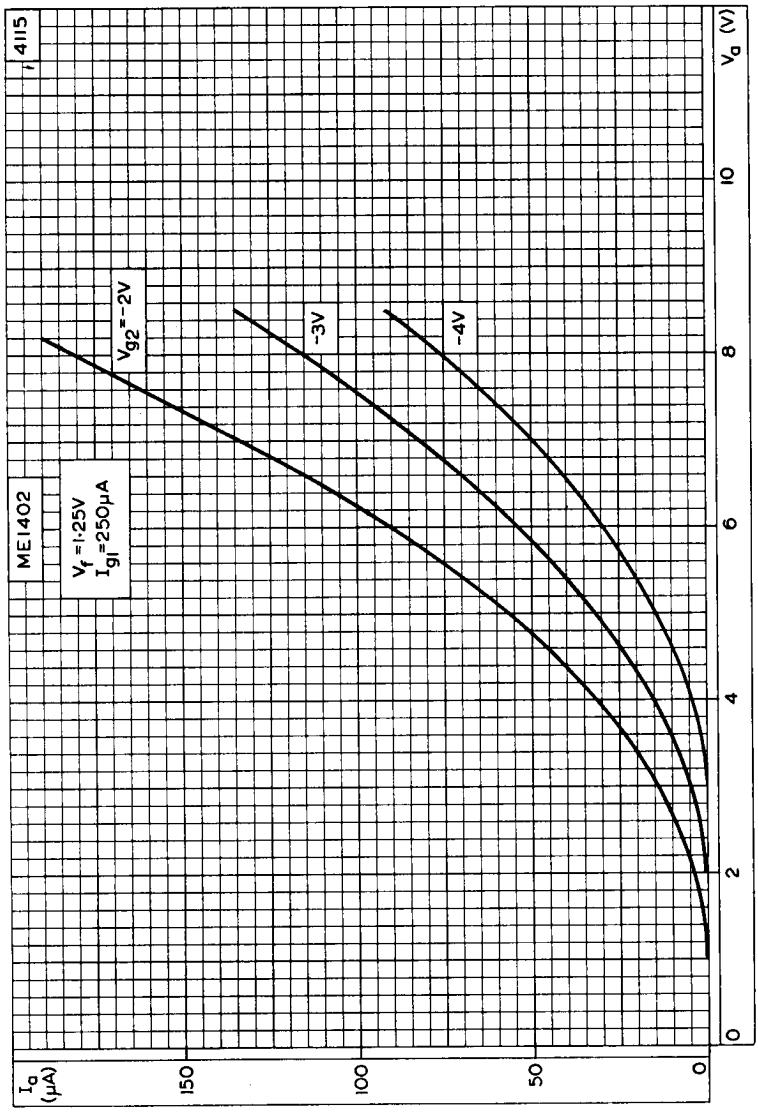

ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID (g_2) VOLTAGE AS PARAMETER AT ACCELERATOR GRID (g_1) CURRENT OF 250μA