

SUBMINIATURE R.F. PENTODE

EF70

Subminiature high slope r.f. pentode with a short suppressor grid base. A diode is connected internally to the suppressor grid to prevent this grid locking at a positive voltage.

HEATER

V_h	6.3	V
I_h	200	mA

MOUNTING POSITION

Any

Note – Direct soldered connections to the leads of this valve must be at least 5mm from the seal and any bending of the valve leads must be at least 1,5mm from the seal.

COOLING

In operation this valve may become very hot and, therefore, in the interests of satisfactory life, it should be adequately cooled. A suitable method is to mount the valve in a metal clip which conducts the heat away to the chassis and should result in a bulb temperature of 100°C.

CAPACITANCES (measured with external shield)

C_{a-g1}	<0.025	pF ←
C_{in}	4.5	pF
C_{out}	4.7	pF

CHARACTERISTICS

V_a	100	V
V_{g2}	100	V
V_{g3}	0	V
I_a	3.0	mA
I_{g2}	2.25	mA ←
V_{g1}	-2.0	V
g_m	2.5	mA/V
r_a	100	kΩ
μ_{g1-g2}	38	
$V_{g3}(I_a=100\mu A)$	-8.0	V ←



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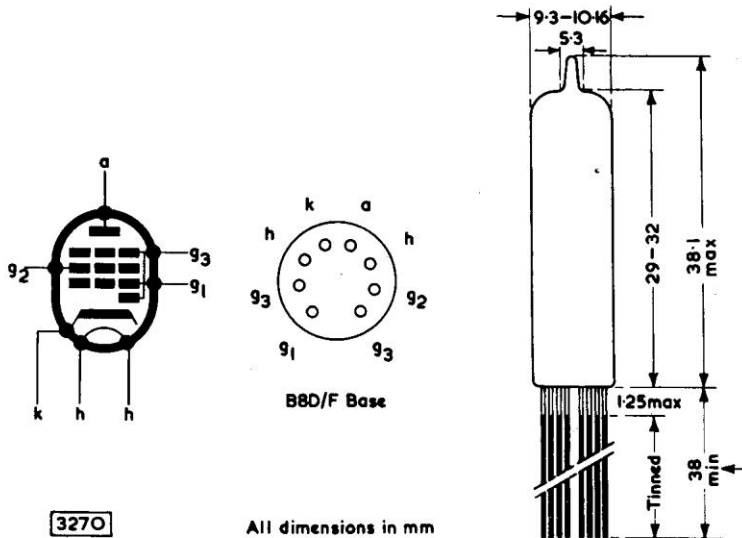
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LIMITING VALUES

$V_{a(b)}$ max.	300	V
V_a max.	175	V
P_a max.	750	mW
$V_{g2(b)}$ max.	300	V
V_{g2} max.	175	V
P_{g2} max.	400	mW
I_k max.	10	mA
R_{g1-k} max.	500	$k\Omega$
R_{h-k} max.	20	$k\Omega$
V_{h-k} max.	100	V

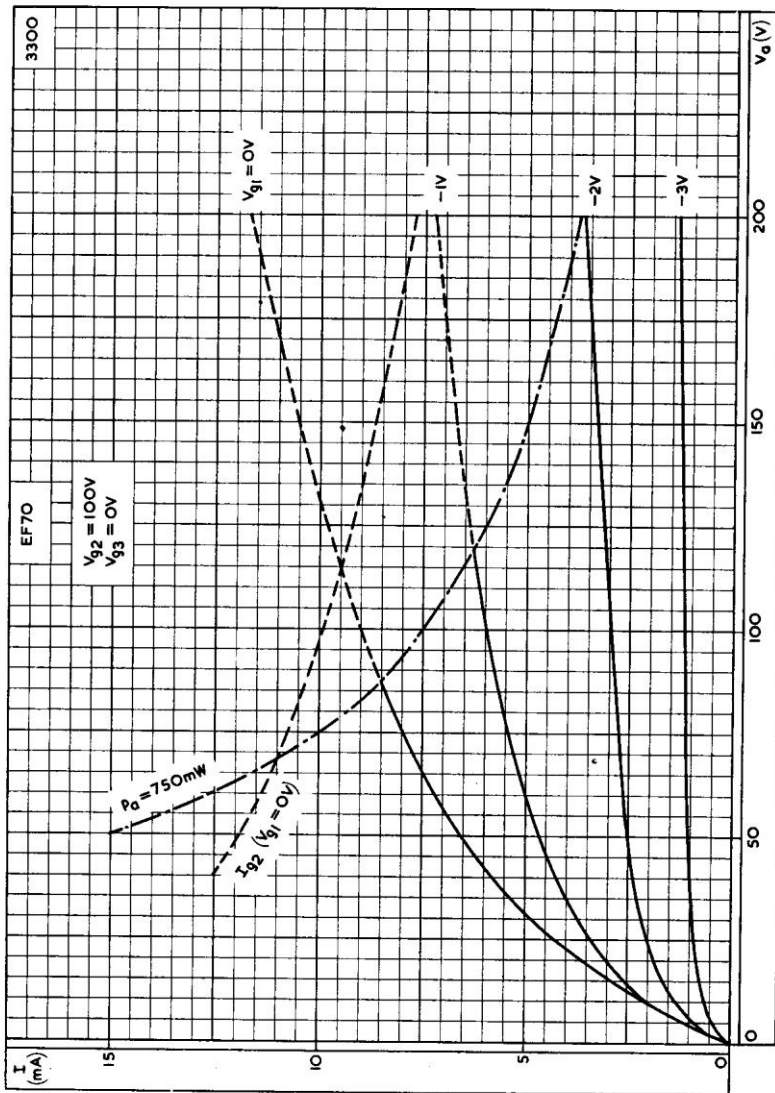
Note – A diode is connected internally to g_3 in order to prevent this grid locking at a positive voltage.



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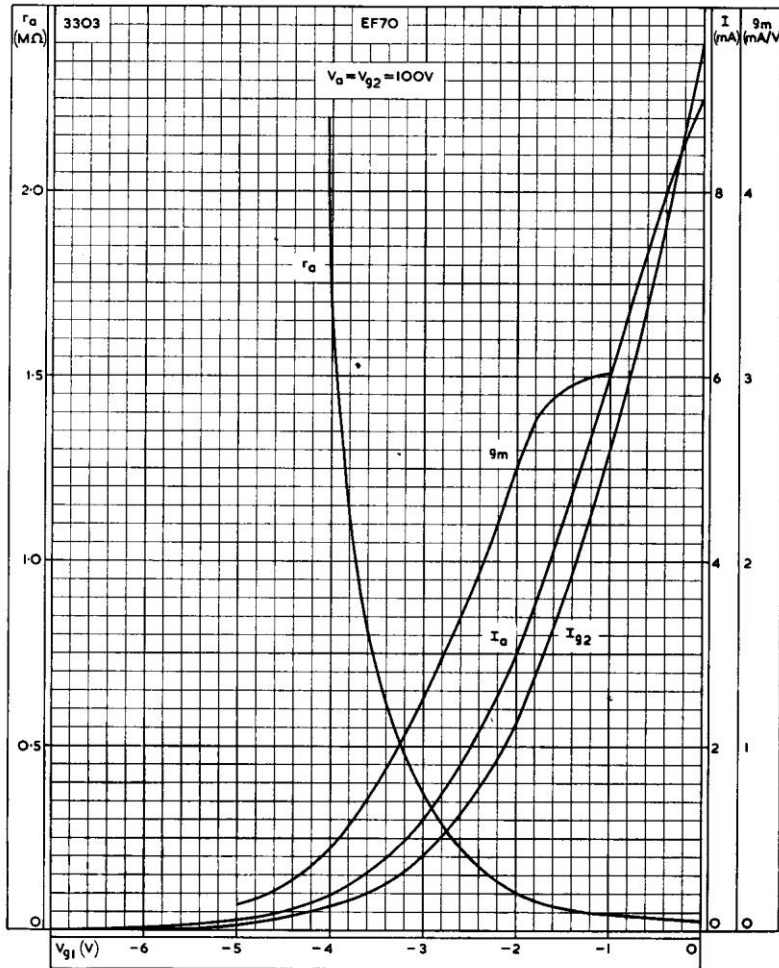
ANODE CURRENT AND SCREEN-GRID CURRENT PLOTTED AGAINST ANODE VOLTAGE



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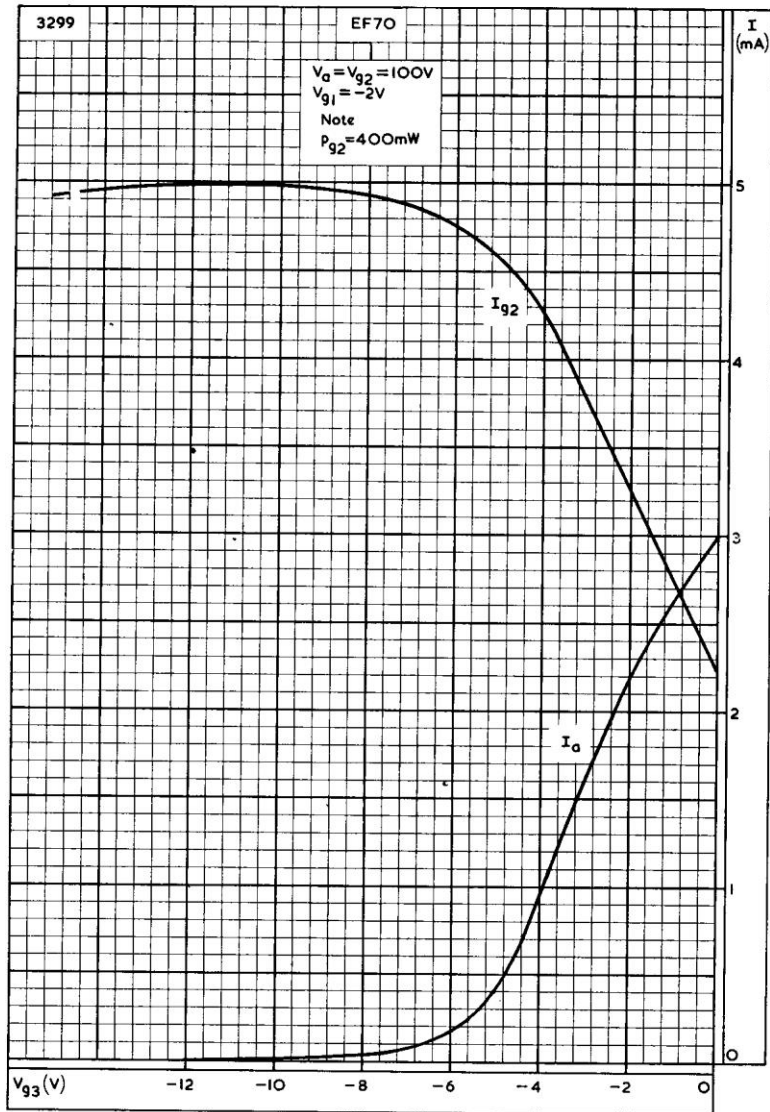


ANODE CURRENT, SCREEN-GRID CURRENT, MUTUAL CONDUCTANCE AND ANODE IMPEDANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE

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ANODE CURRENT AND SCREEN-GRID CURRENT PLOTTED AGAINST SUPPRESSOR-GRID VOLTAGE

