

SUBMINIATURE U.H.F. TRIODE

EC70

Triode primarily intended for use as an oscillator at frequencies of the order of 500Mc/s.

HEATER

V_h	6.3	V
I_h	150	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 approximately 100°C.

CAPACITANCES

	Shielded	Unshielded	
C_{a-g}	2.1	2.1	pF
C_{g-k}	1.8	1.7	pF
C_{a-k}	2.8	0.6	pF

CHARACTERISTICS

V_a	100	V
V_g	-2.0	V
I_a	13	mA
g_m	5.5	mA/V
μ	20	
r_a	3.6	k Ω

TYPICAL OPERATING CONDITIONS AS AN OSCILLATOR AT 500 Mc/s

V_a	175	V
I_a	20	mA
I_g	2.0	mA
R_{g-k}	5.6	k Ω
P_{load}	750	mW

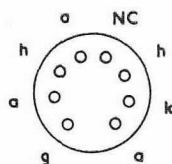
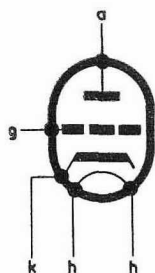
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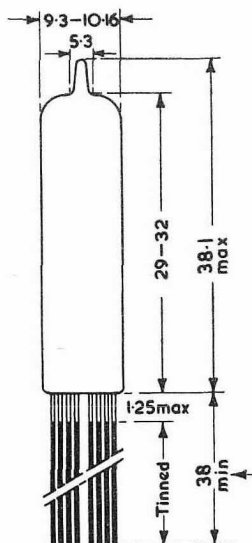
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LIMITING VALUES

$V_{a(b)}$ max.	300	V
V_a max.	175	V
p_a max.	3.0	W
I_k max.	22	mA
R_{g-k} max.	500	$k\Omega$
R_{h-k} max.	20	$k\Omega$
V_{h-k} max.	100	V



B8D/F Base



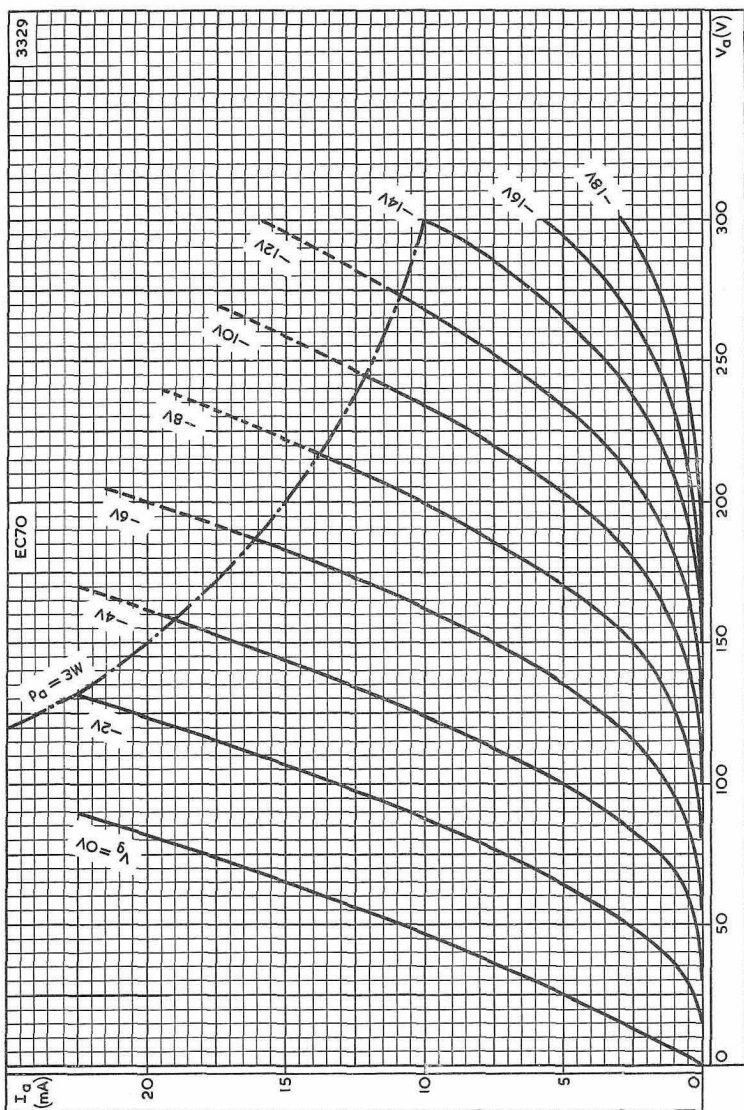
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All dimensions in mm

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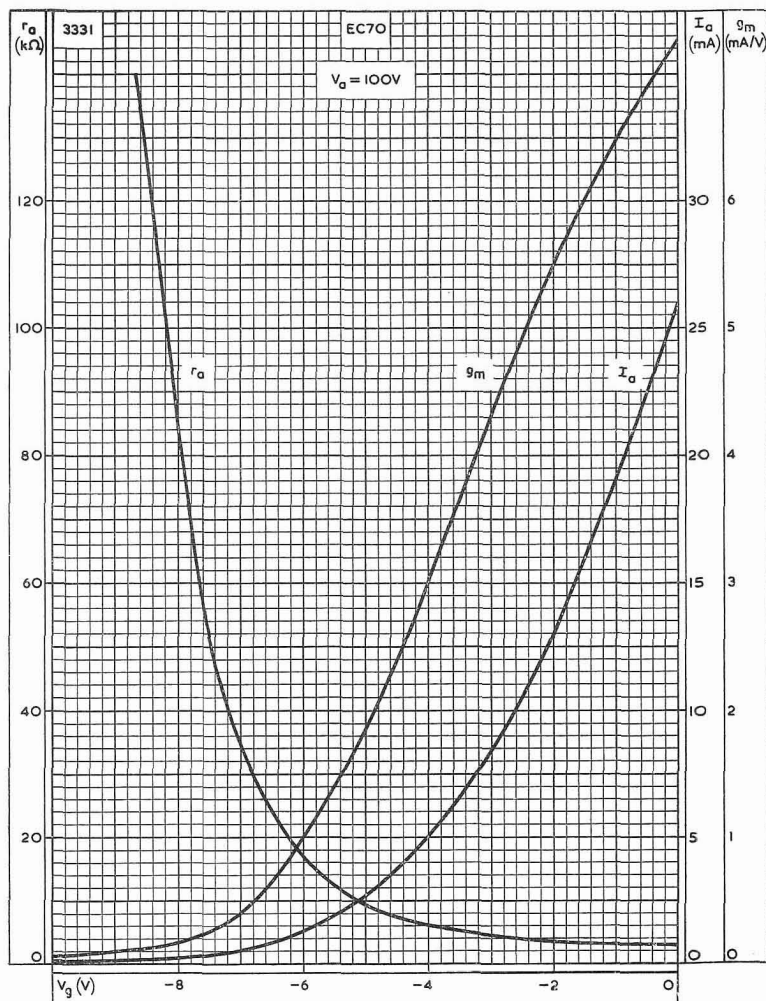


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH GRID VOLTAGE AS PARAMETER

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ANODE CURRENT, MUTUAL CONDUCTANCE, AND ANODE IMPEDANCE
PLOTTED AGAINST GRID VOLTAGE. $V_a = 100V$