

R.F. POWER TRIODE

EC90

Triode for use as r.f. power amplifier or oscillator.

HEATER

V_h	6.3	V
I_h	150	mA

CAPACITANCES

	Shielded	Unshielded	
C_{a-g}	1.3	1.4	pF
C_{in}	1.7	1.5	pF
C_{out}	2.6	1.2	pF

CHARACTERISTICS

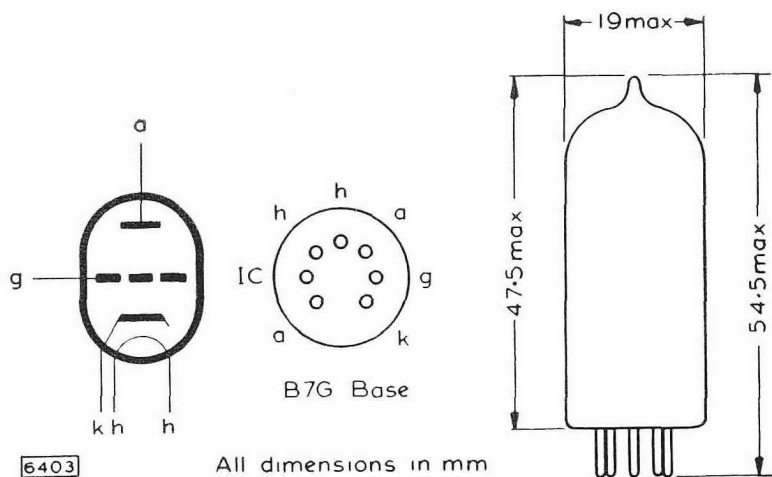
V_a	100	250	V
V_g	0	-8.5	V
I_a	11.8	10.5	mA
g_m	3.25	2.2	mA/V
μ	21.5	17	
r_a	6.6	7.7	k Ω

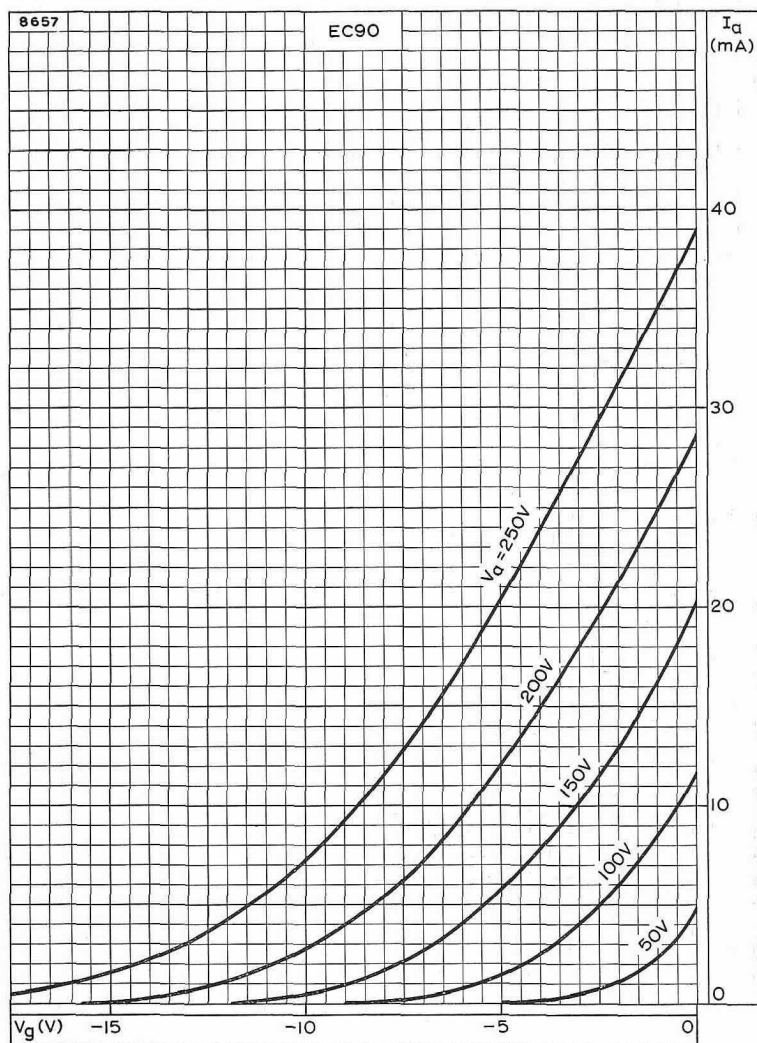
OPERATING CONDITIONS AS R.F. AMPLIFIER OR OSCILLATOR (Class "C" Telegraphy or F.M.)

f	50	100	Mc/s
V_a	300	300	V
V_g	-27	-27	V
I_a	16.2	17.1	mA
I_g	3.8	2.9	mA
P_{out}	3.6	3.3	W
η	67	55	%

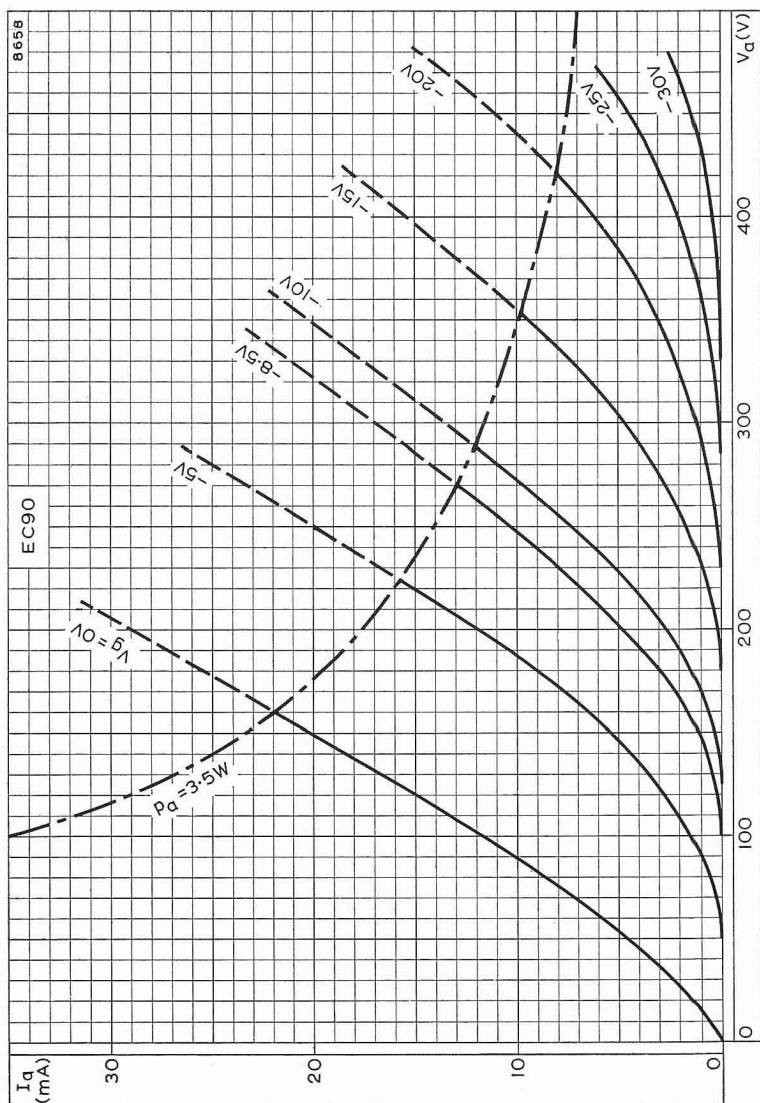
LIMITING VALUES

$V_{a(b)}$ max.	550	V
V_a max.	300	V
p_a max.	3.5	W
I_k max. (as r.f. oscillator or amplifier)	30	mA
I_k max. (as r.f. doubler or trebler)	20	mA
$-V_g$ max.	100	V
I_g max.	5.0	mA
R_{g-k} max.	250	k Ω
V_{h-k} max.	150	V
T_{bulb} max.	180	$^{\circ}$ C
f max.	150	Mc/s

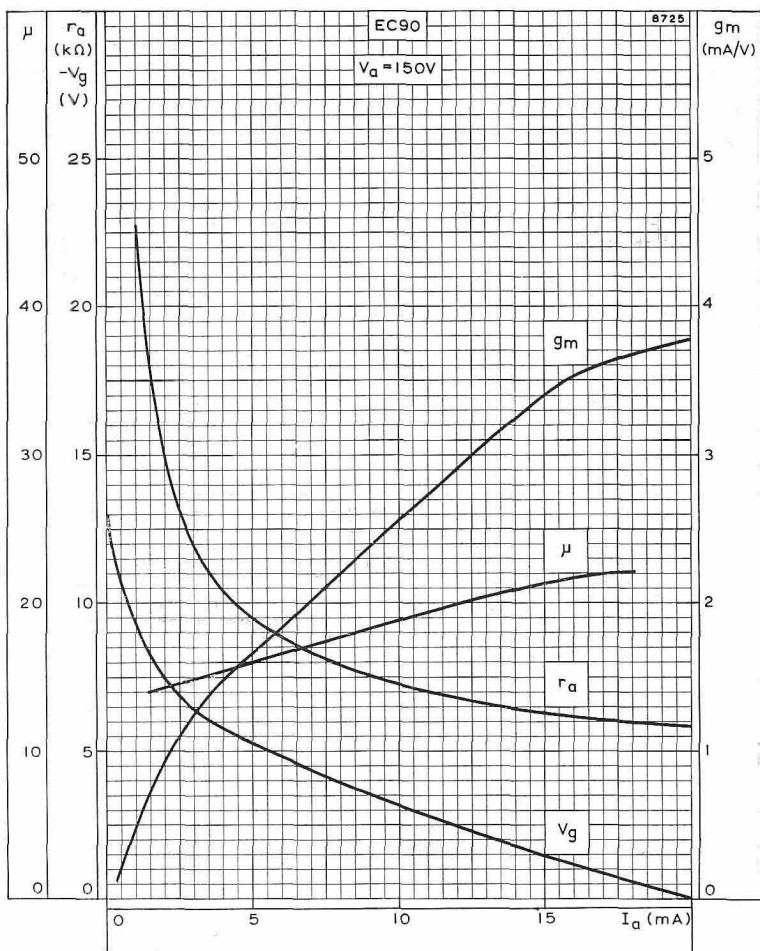




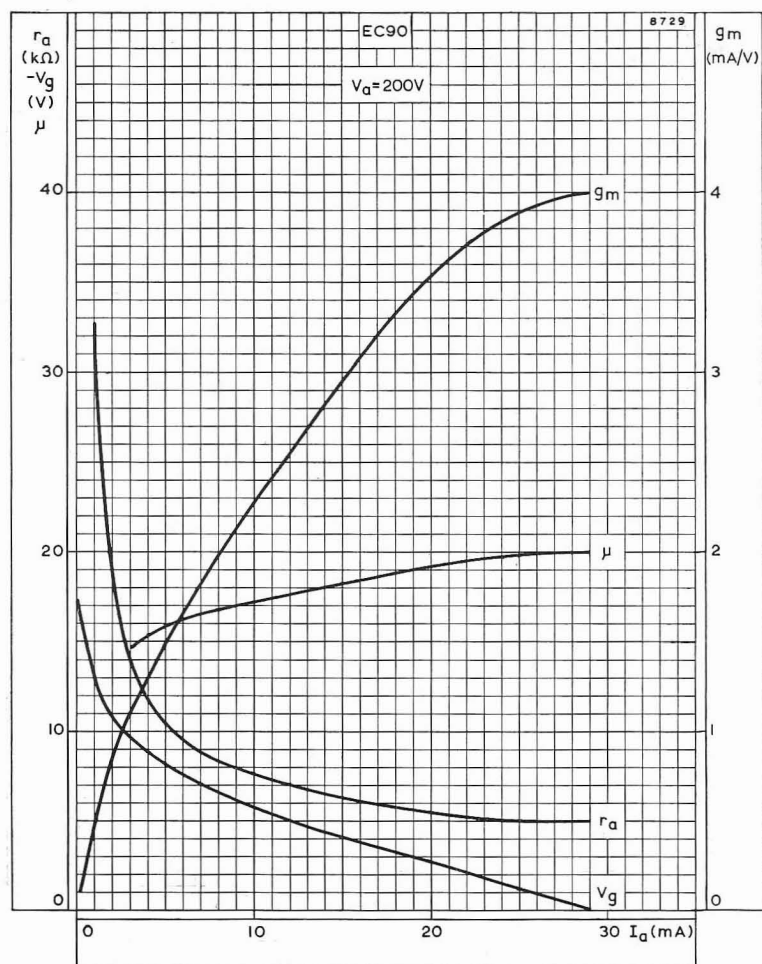
ANODE CURRENT PLOTTED AGAINST GRID VOLTAGE WITH ANODE VOLTAGE AS PARAMETER



ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH GRID VOLTAGE AS PARAMETER



MUTUAL CONDUCTANCE, AMPLIFICATION FACTOR, ANODE IMPEDANCE AND GRID VOLTAGE PLOTTED AGAINST ANODE CURRENT, $V_a = 150V$



MUTUAL CONDUCTANCE, AMPLIFICATION FACTOR, ANODE IMPEDANCE AND GRID VOLTAGE PLOTTED AGAINST ANODE CURRENT. $V_a = 200V$