

DOUBLE TRIODE

ECC84

Double triode primarily intended for use as a cascode r.f. amplifier at frequencies up to 220Mc/s in television receivers.

HEATER

Suitable for parallel operation only, a.c. or d.c.

V_h	6.3	V
I_h	330	mA

CAPACITANCES (measured without external shield)

$C_{a'-k'+h+g''}$	1.2	pF
$C_{a'-a''}$	<0.035	pF
$C_{g'-a''}$	<0.006	pF

Grounded cathode section

$C_{a'-g'}$	1.2	pF
$C_{in'}$	2.1	pF
$C_{out'}$	0.45	pF
$C_{g'-h}$	<0.25	pF

Grounded grid section

$C_{a''-g''}$	2.3	pF
$C_{a''-k''}$	0.16	pF
$C_{k''-g''+h}$	4.7	pF
$C_{a''-g''+h}$	2.5	pF
$C_{h-k''}$	2.7	pF

CHARACTERISTICS (each section)

V_a	90	V
I_a	12	mA
V_g	-1.5	V
g_m	6.0	mA/V
μ	24	
* R_{in}	2.0	k Ω

*Measured at $f = 200\text{Mc/s}$ with cathode connections pins 7 and 8 strapped.

ECC84

DOUBLE TRIODE

Double triode primarily intended for use as a cascode r.f. amplifier at frequencies up to 220Mc/s in television receivers.

TYPICAL OPERATING CONDITIONS

V_b	250	V
R (see Fig. 1)	5.6	k Ω
I_a	12	mA
V_g	-1.5	V

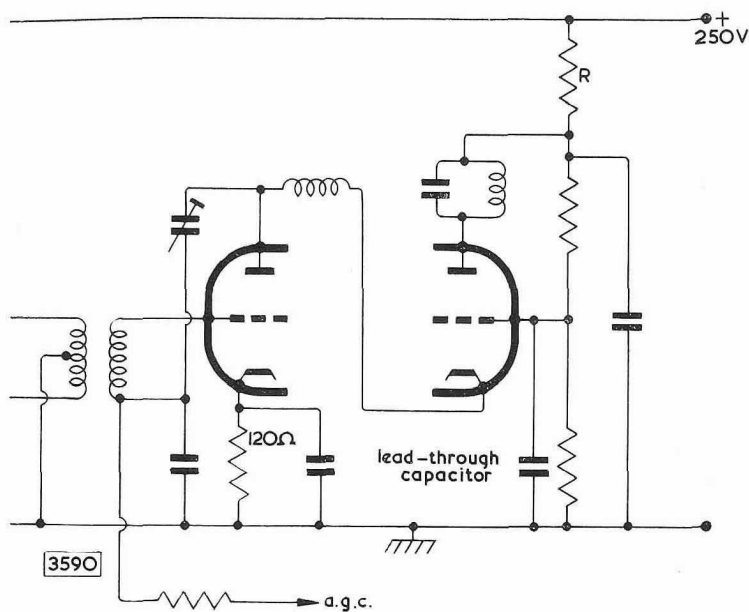


Fig 1

Noise figure (bandwidth of input circuit 7-8 Mc/s) 6.5

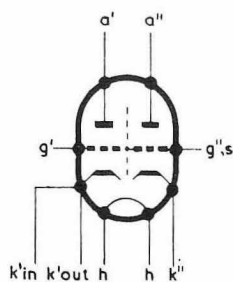
DOUBLE TRIODE

ECC84

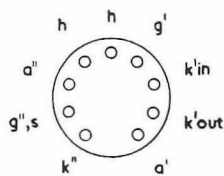
Double triode primarily intended for use as a cascode r.f. amplifier at frequencies up to 220Mc/s in television receivers.

LIMITING VALUES (each section unless otherwise specified)

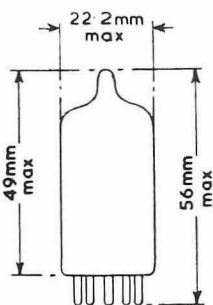
$V_{a(b)}$ max.	550	V
V_a max.	180	V
p_a max.	2.0	W
I_k max.	22	mA
$-V_g$ max.	50	V
$R_{g'-k'}$ max.	1.5	M Ω
$R_{g''-k''}$ max.	500	k Ω
$V_{h-k''}$ max. (cathode positive)	200	V
$V_{h-k'}$ max.	100	V
R_{h-k} max.	20	k Ω



1390



B9A Base

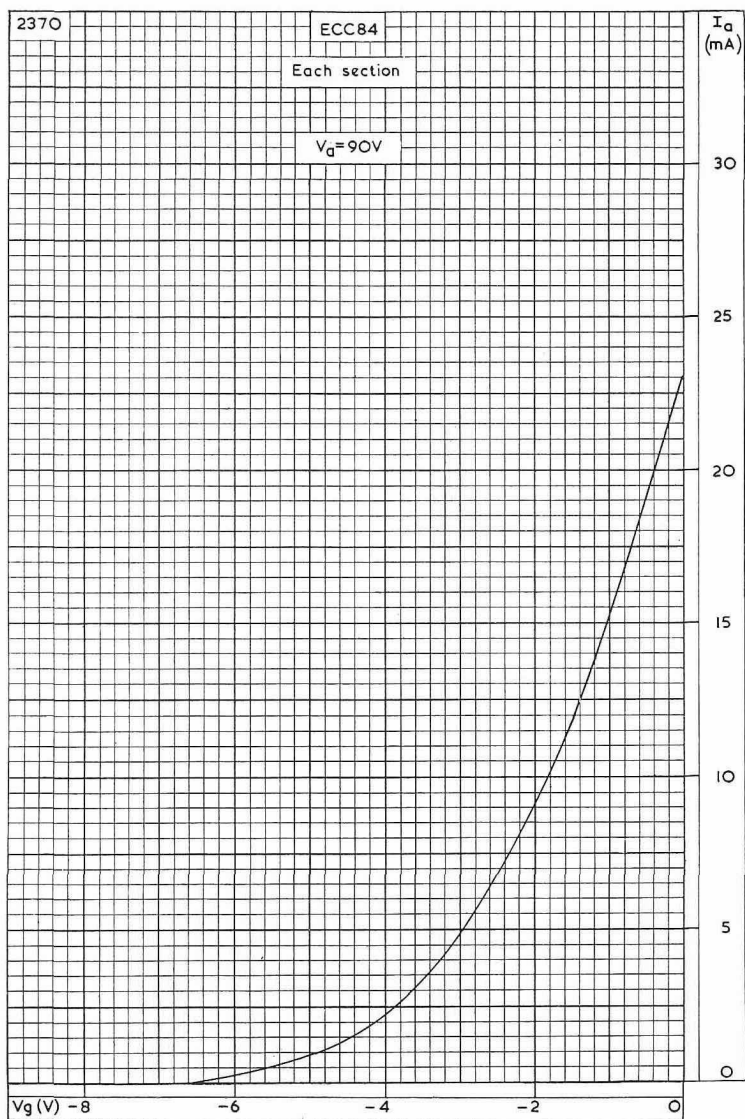


The triode on pins 6, 7, 8, 9 should have grounded cathode connection and that on pins 1, 2, 3 should have grounded-grid connection.

ECC84

DOUBLE TRIODE

Double triode primarily intended for use as a cascade r.f. amplifier at frequencies up to 220Mc/s in television receivers.

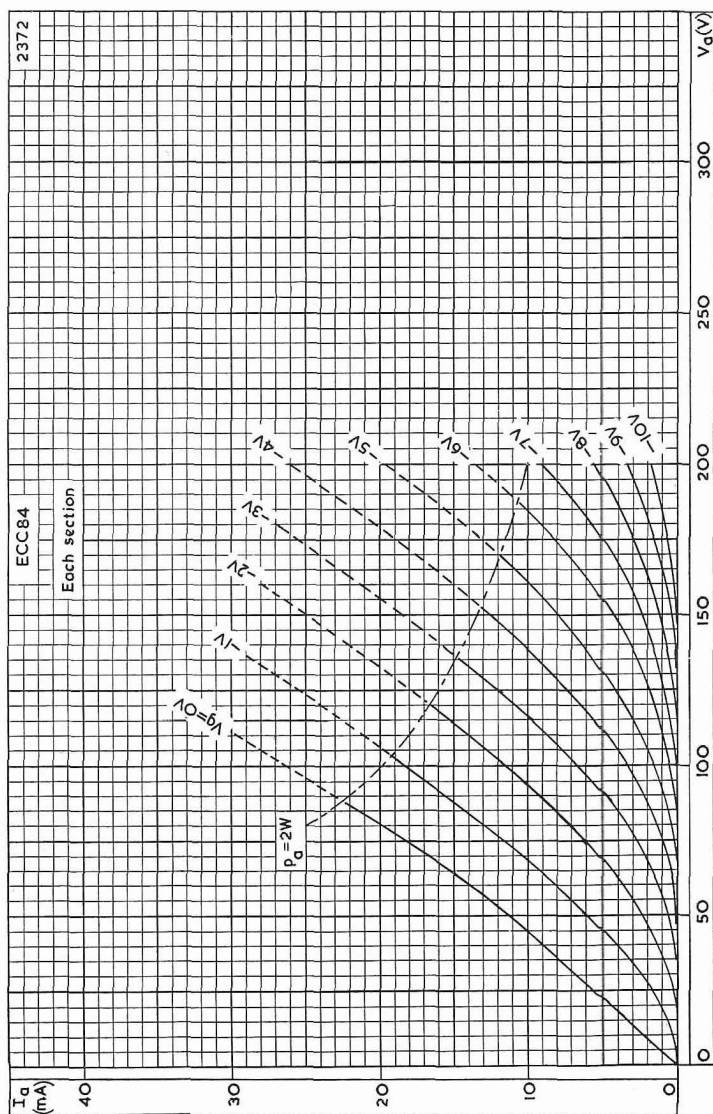


ANODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE

DOUBLE TRIODE

ECC84

Double triode primarily intended for use as a cascade r.f. amplifier at frequencies up to 220Mc/s in television receivers.

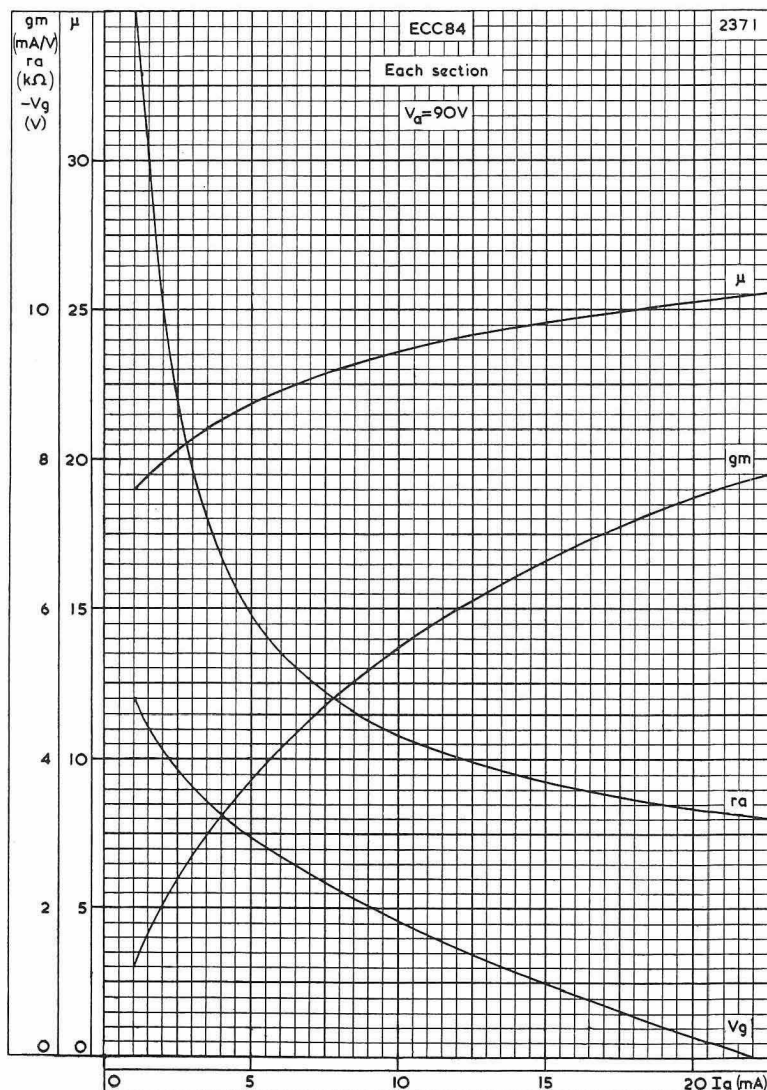


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER

ECC84

DOUBLE TRIODE

Double triode primarily intended for use as a cascode r.f. amplifier at frequencies up to 220Mc/s in television receivers.



AMPLIFICATION FACTOR, MUTUAL CONDUCTANCE, ANODE IMPEDANCE AND CONTROL-GRID BIAS PLOTTED AGAINST ANODE CURRENT