

DOUBLE TRIODE

PCC84

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

HEATER

Suitable for series operation, a.c. or d.c.

I_h	300	mA
V_h	7.0	V

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	kΩ

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

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TYPICAL OPERATING CONDITIONS

V_b	180	V
I_a	12	mA
V_g	-1.5	V

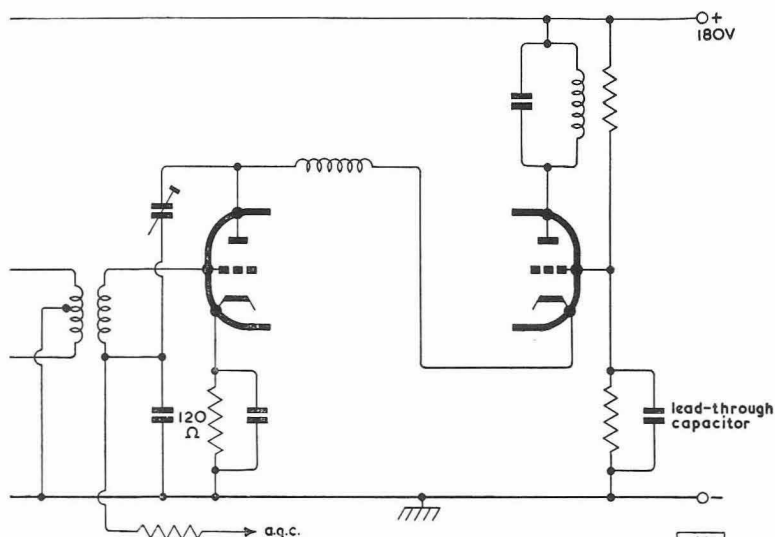


Fig.1

3697

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

6.5

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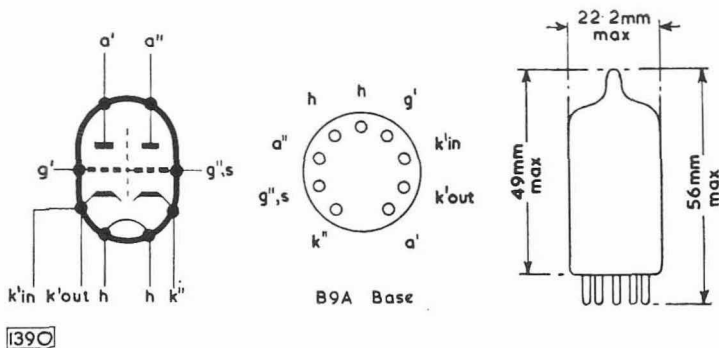
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LIMITING VALUES (each section unless otherwise specified)

$V_{a(b)}$ max.	550	V
V_a max.	180	V
p_a max.	2.0	W
I_k max.	18	mA
$-V_g$ max.	50	V
$R_{g'-k'}$ max.	1.0	M Ω ←
$R_{g''-k''}$ max.	500	k Ω ←
* $V_{h-k''}$ (pk) max. (cathode positive)	250	V
$V_{h-k''}$ max. (cathode negative)	90	V
$V_{h-k'}$ max.	90	V
R_{h-k} max.	20	k Ω

*Max. d.c. component = 180V.

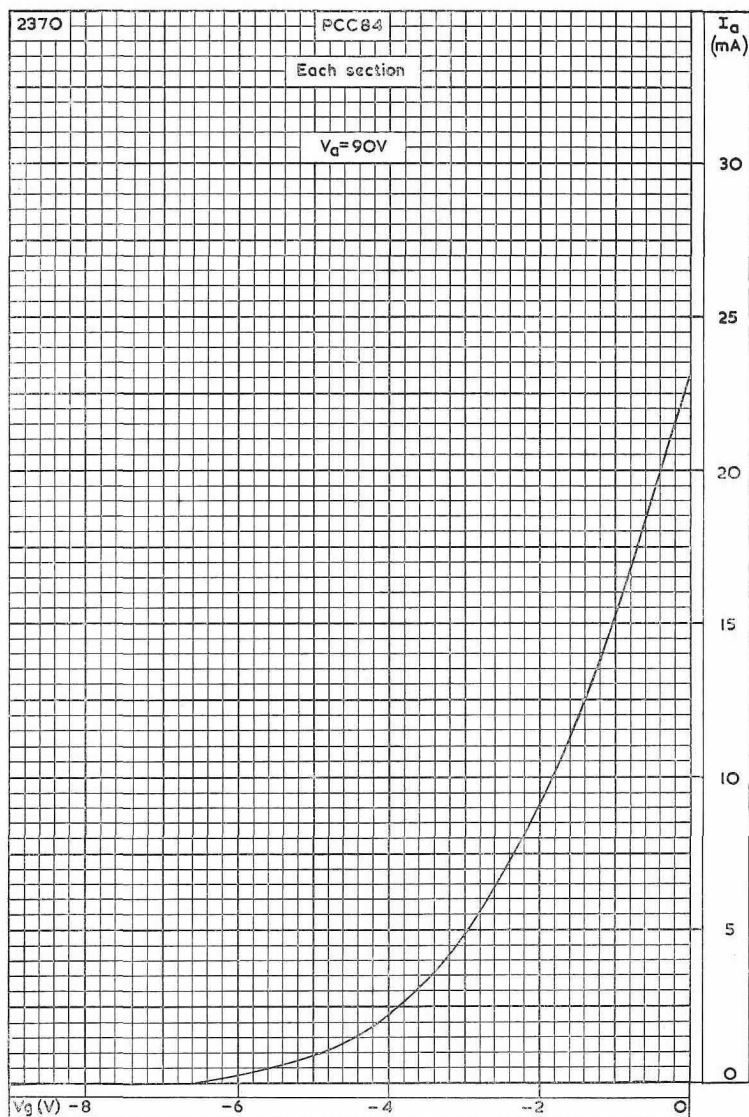


The triode on pins 6, 7, 8, 9 should have grounded-cathode connection and that on pins 1, 2, 3 should have grounded-grid connection.

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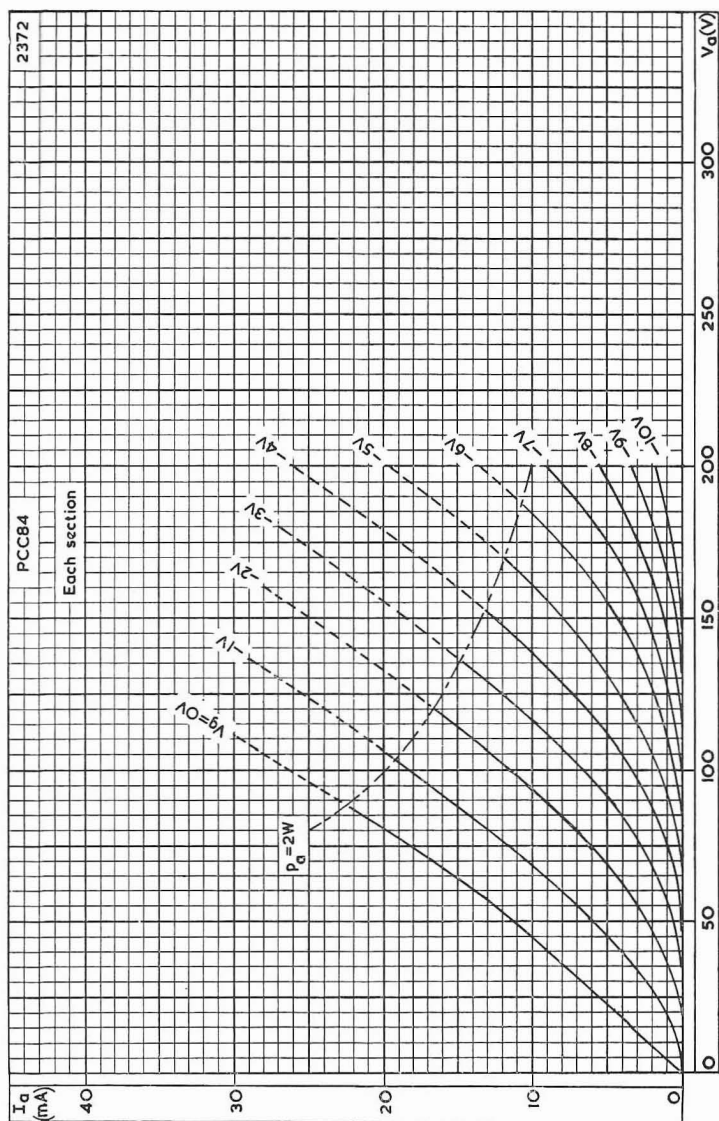


ANODE CURRENT PLOTTED AGAINST GRID VOLTAGE

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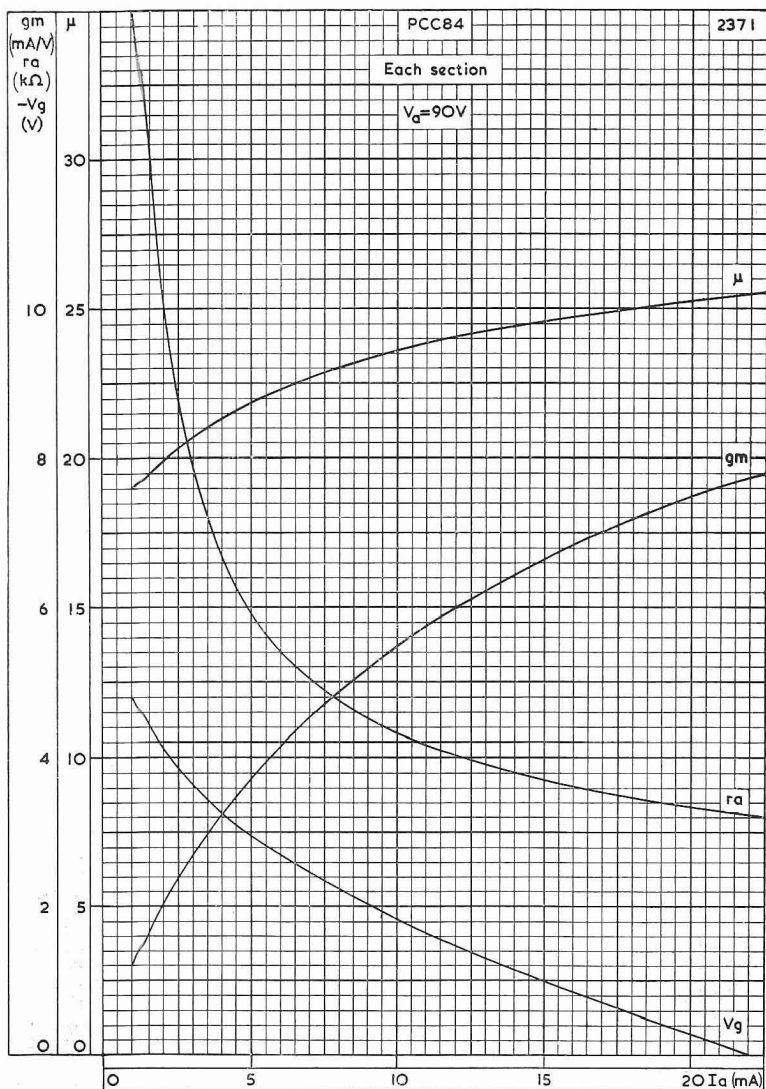


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH GRID VOLTAGE AS PARAMETER

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