

V.H.F. DOUBLE TRIODE

ECC88

High slope, low noise v.h.f. frame grid double triode
for use as a cascode amplifier.

HEATER

V_h	6.3	V
I_h	365	mA

CAPACITANCES

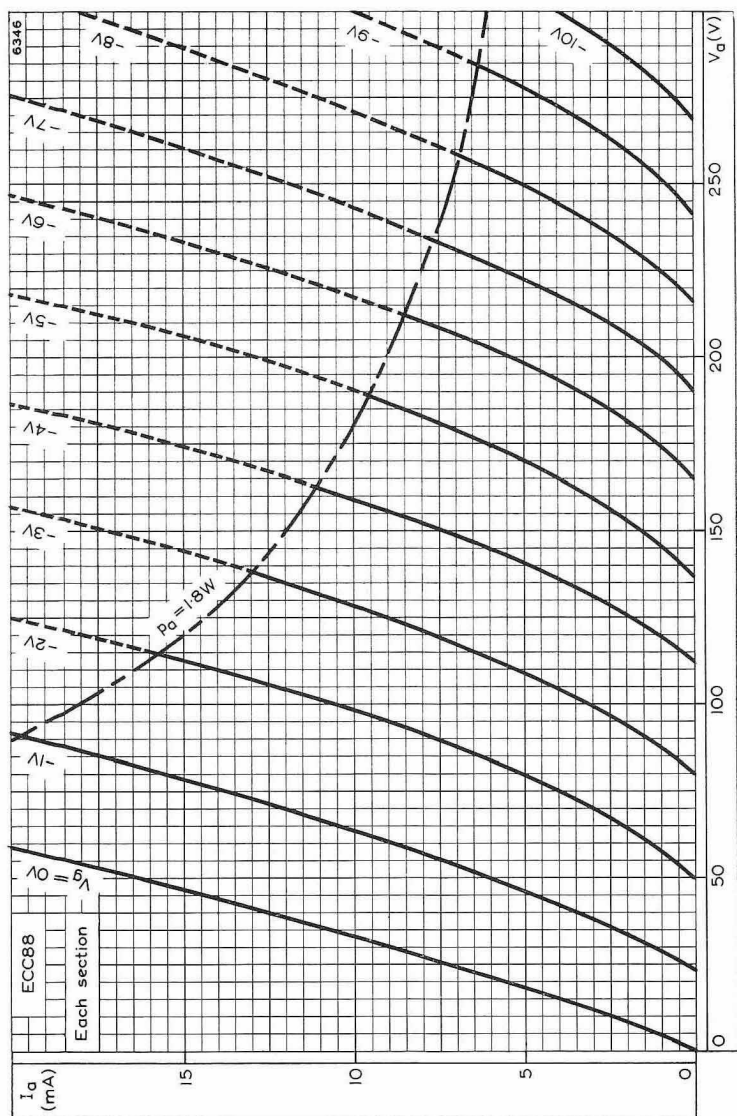
	Shielded	Unshielded
$C_{a'-a''}$	<15	<45 mpF
$C_{g'-a''}$	<5	<5 mpF
Grounded cathode section		
$C_{a'-g'}$	1.4	1.4 pF
$C_{g'-k'+h+s}$	3.3	3.3 pF
$C_{a'-k'+h+s}$	2.5	1.8 pF
$C_{g'-h}$	130	130 mpF
Grounded grid section		
$C_{a''-g''}$	1.4	1.4 pF
$C_{k''-g''+h+s}$	6.0	6.0 pF
$C_{a''-g''+h+s}$	3.7	2.8 pF
$C_{k''-h}$	2.7	2.7 pF
$C_{a''-k''}$	160	180 mpF

CHARACTERISTICS

V_a	90	V
V_g	-1.3	V
I_a	15	mA
g_m	12.5	mA/V
r_a	2.6	k Ω
μ	33	
R_{eq}	300	Ω

LIMITING VALUES (each section)

$V_{a(b)} \text{ max.}$	550	V
$V_a \text{ max.}$	130	V
$p_a \text{ max.}$	1.8	W
$I_k \text{ max.}$	25	mA
$-V_g \text{ max.}$	50	V
$R_{g-k} \text{ max.}$	1.0	M Ω
$V_{h-k'} \text{ max.}$	50	V
$V_{h-k''} \text{ max. (cathode positive)}$	150	V
$R_{h-k} \text{ max.}$	20	k Ω

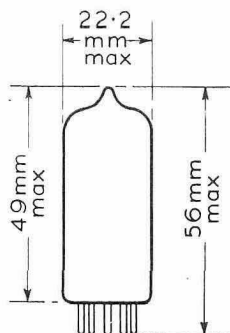
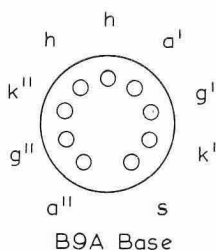
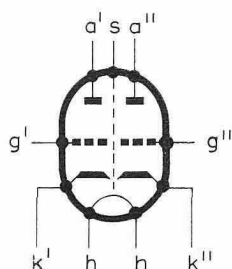


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH GRID VOLTAGE AS PARAMETER IN THE REGION OF THE ORIGIN

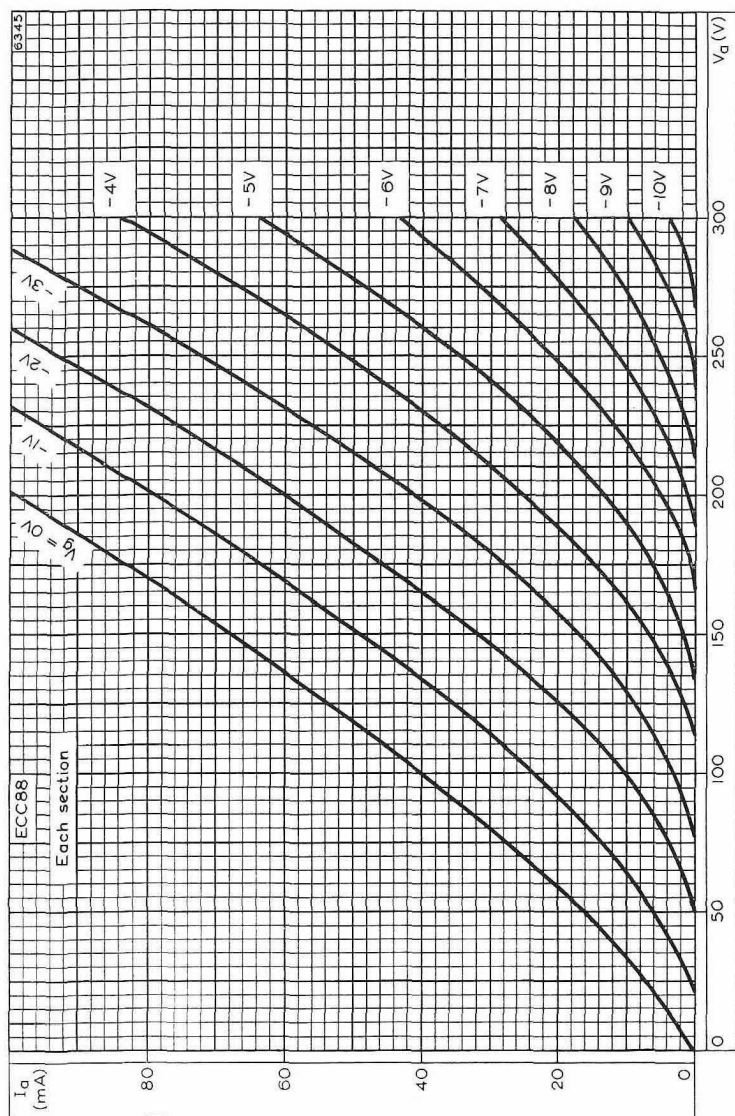
NOTES

In order not to exceed the maximum permissible anode voltage when the cascode amplifier is controlled, it is necessary to use a voltage divider for the grid of the grounded grid section. With grid current biasing for the grounded cathode section, the anode voltage across this section should not be more than 75V in the non-controlled condition.

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



ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH GRID VOLTAGE AS PARAMETER