

V.H.F. PENTODE

EF95

Low noise, high slope pentode primarily intended for use as an r.f. and i.f. amplifier.

HEATER

V_h	6.3	V
I_h	175	mA

CAPACITANCES

Pentode connection

	Unshielded	Shielded	
C_{in}	4.0	4.0	pF
C_{out}	2.2	3.1	pF
C_{a-g1}	23	< 20	mpF
C_{h-k}	2	2	pF

Triode connection

C_{in}	2.7	2.8	pF
C_{out}	4.2	5.1	pF
C_{a-g}	1.4	1.4	pF

CHARACTERISTICS

Pentode connection

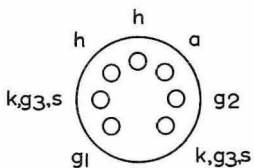
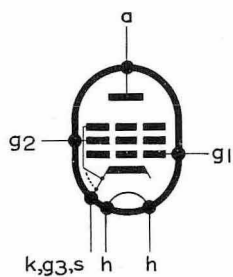
V_a	120	180	V
V_{g2}	120	120	V
I_a	7.5	7.7	mA
I_{g2}	2.5	2.4	mA
V_{g1}	-2.0	-2.0	V
g_m	5.0	5.1	mA/V
r_a	250	400	k Ω
μ_{g1-g2}	35	35	
R_{eq}	2	2	k Ω
$r_{g1} (f = 50Mc/s)$	25	25	k Ω

Triode connection

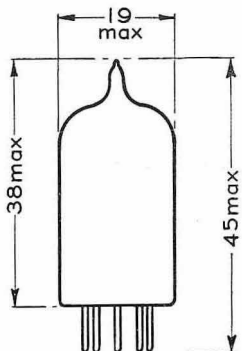
V_a	120	V
I_a	10	mA
V_g	-2	V
g_m	6.8	mA/V
r_a	5.2	k Ω
μ	35	
R_{eq}	900	Ω

DESIGN CENTRE RATINGS

$V_{a(b)} \text{ max.}$	300	V
$V_a \text{ max.}$	180	V
$p_a \text{ max.}$	1.7	W
$V_{g2(b)} \text{ max.}$	300	V
$V_{g2} \text{ max.}$	140	V
$p_{g2} \text{ max.}$	500	mW
$-V_{g1} \text{ max.}$	50	V
$R_{g1-k} \text{ max.}$	3.0	M $\Omega \leftarrow$
$I_k \text{ max.}$	18	mA
$V_{h-k} \text{ max.}$	120	V
$T_{bulb} \text{ max.}$	170	$^{\circ}\text{C}$

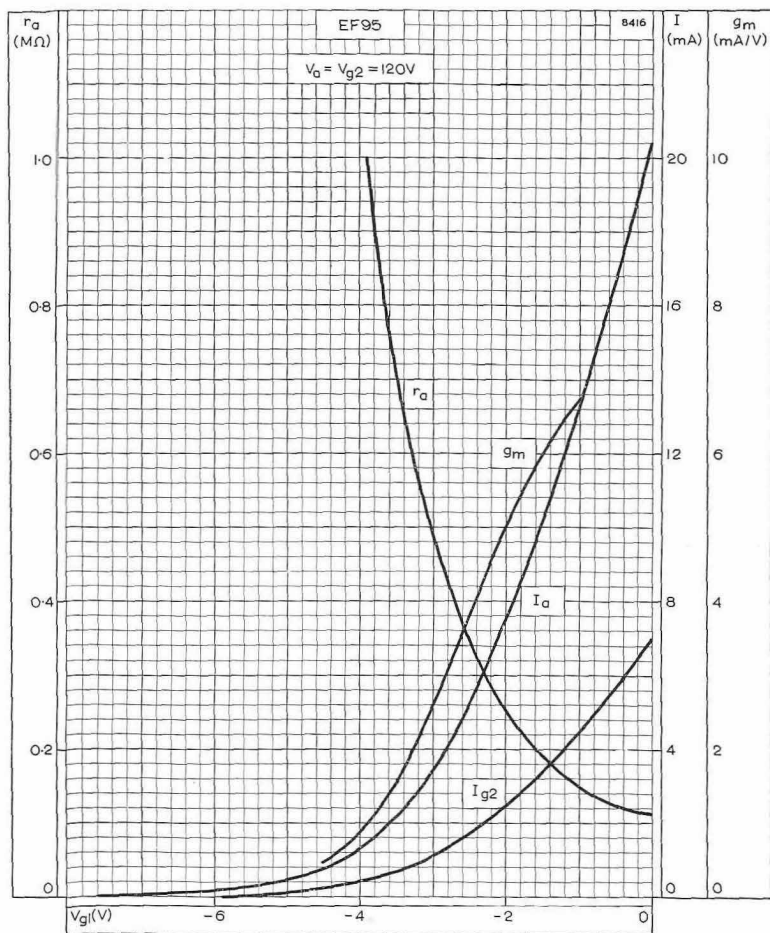


B7G Base

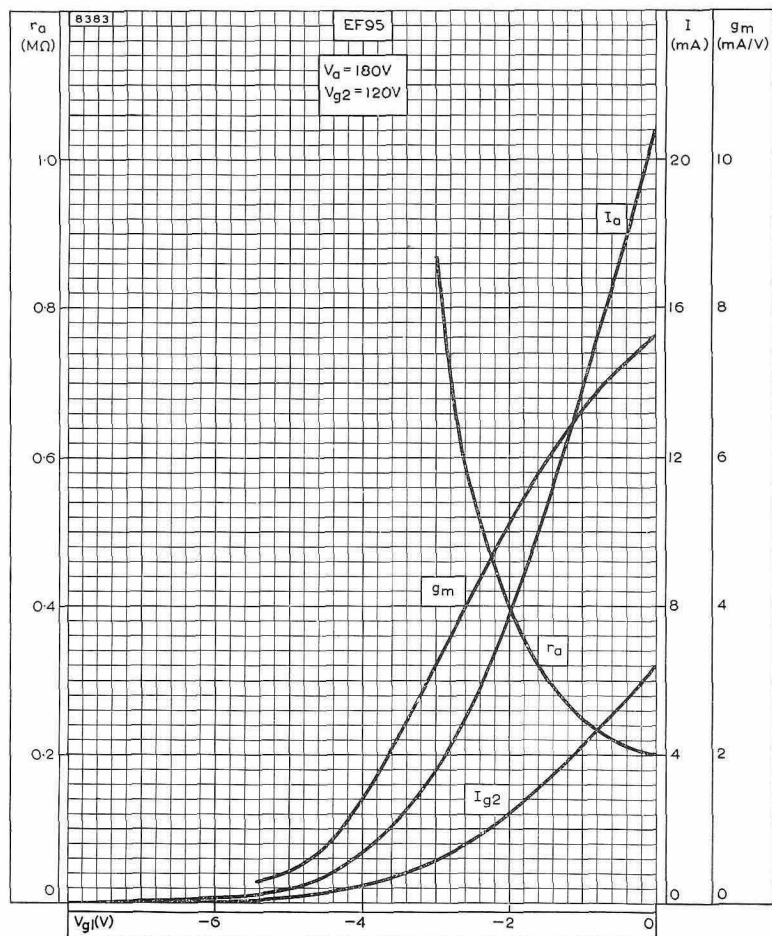


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All dimensions in mm

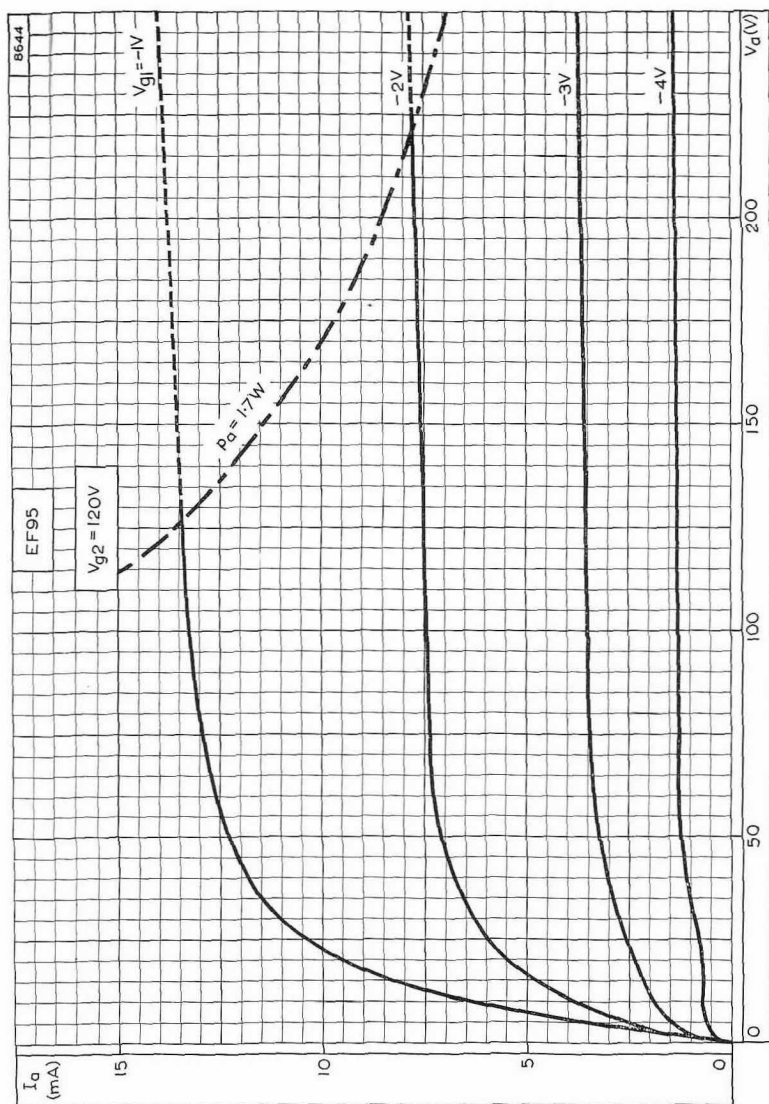


ANODE CURRENT, SCREEN-GRID CURRENT, MUTUAL CONDUCTANCE
 AND ANODE IMPEDANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE.
 $V_a = 120V$

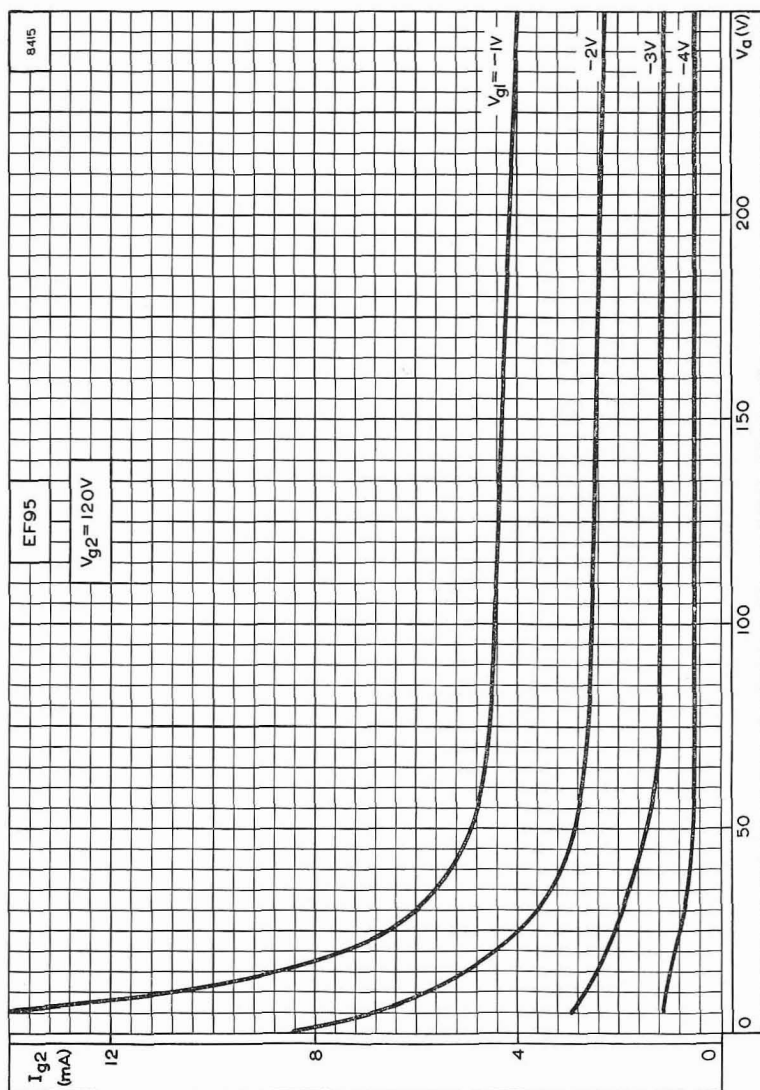


ANODE CURRENT, SCREEN-GRID CURRENT, MUTUAL CONDUCTANCE
AND ANODE IMPEDANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE.

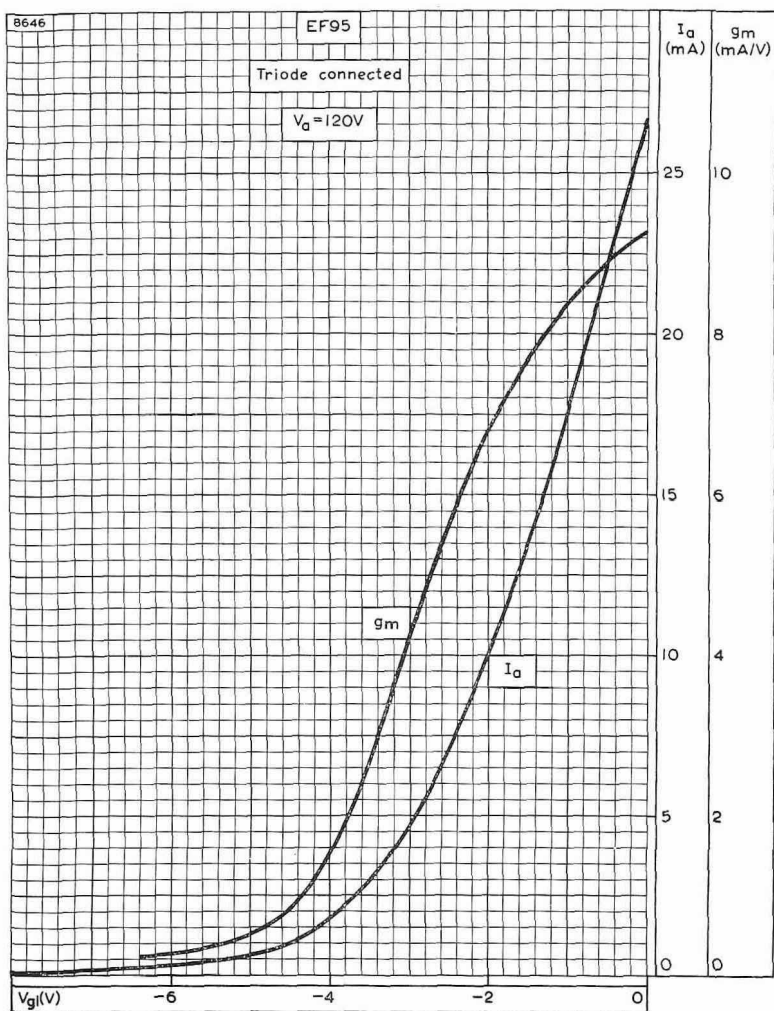
$V_a = 180V$



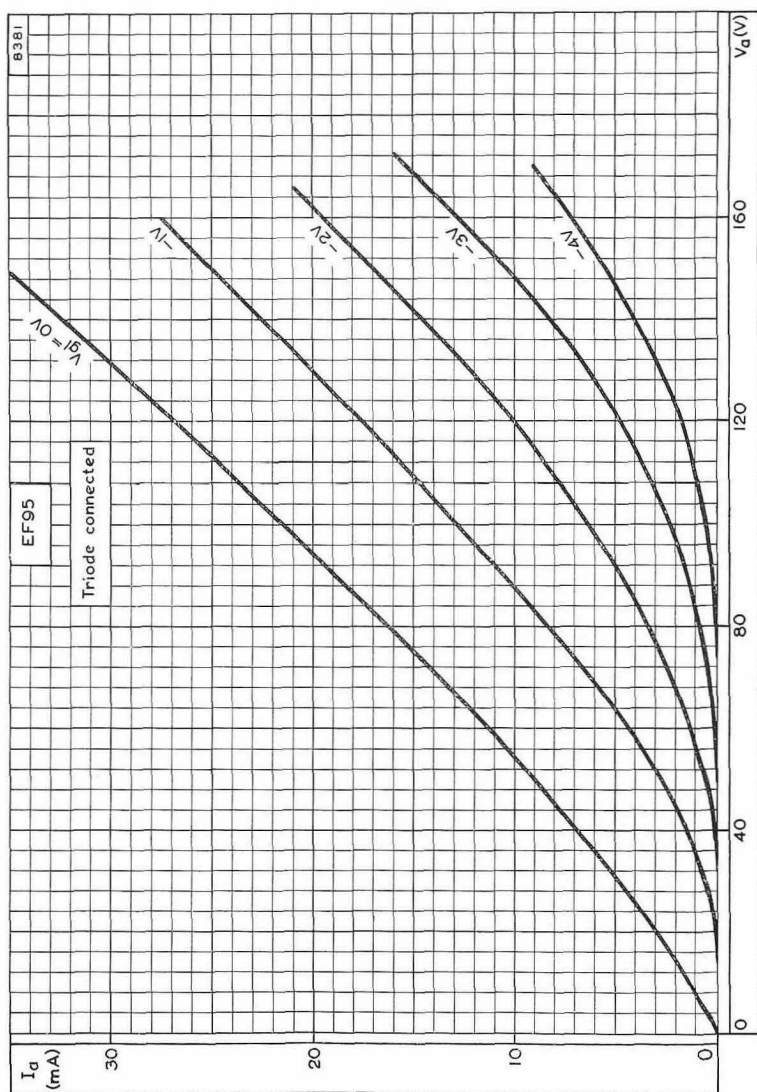
ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE
WITH CONTROL-GRID VOLTAGE AS PARAMETER



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



ANODE CURRENT AND MUTUAL CONDUCTANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE, WHEN TRIODE CONNECTED



ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE
WITH CONTROL-GRID VOLTAGE AS PARAMETER,
WHEN TRIODE CONNECTED