

SINGLE DIODE R.F. PENTODE

EAF42

Single diode R.F. pentode for use in A.C. mains operated equipment. The pentode section is suitable for automatic volume control.

HEATER

V_h	6.3	V
I_h	0.2	A

MOUNTING POSITION

Any

CAPACITANCES

C_{ad-g1}	< 0.0015	$\mu\mu F$
C_{ad-ap}	< 0.15	$\mu\mu F$
Pentode Section		
C_{a-g1}	< 0.002	$\mu\mu F$
C_{out}	5.1	$\mu\mu F$
C_{in}	4.5	$\mu\mu F$
C_{g1-h}	< 0.05	$\mu\mu F$
Diode Section		
C_{ad-k}	3.8	$\mu\mu F$
C_{ad-h}	< 0.02	$\mu\mu F$

OPERATING CONDITIONS AS R.F. OR I.F. AMPLIFIER

$V_a = V_b$	250	V
R_{g2}	110	k Ω
V_{g2}	85	V
R_k	310	Ω
V_{g1}	-2.0	V
I_a	5.0	mA
I_{g2}	1.5	mA
g_m	2.0	mA/V
r_a	1.4	M Ω
μ_{g1-g2}	18	
* V_{g1}	-43	V
R_{eq}	7.5	k Ω

* For 100 : 1 reduction in mutual conductance.

LIMITING VALUES

Pentode Section

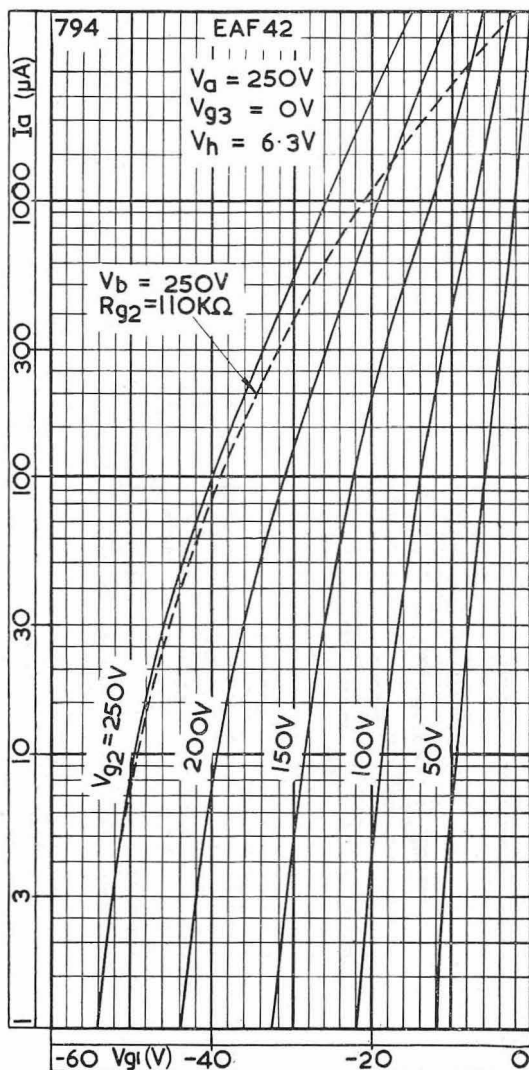
$V_{a(b)}$ max.	550	V
V_a max.	300	V
p_a max.	2	W
$V_{g2(b)}$ max.	550	V
V_{g2} max. ($I_a < 2.5$ mA)	300	V
V_{g2} max. ($I_a = 5.0$ mA)	150	V
p_{g2} max.	0.3	W
I_k max.	10	mA
V_{g1} max. ($I_{g1} = +0.3$ μA)	-1.3	V
R_{g1-k} max.	3.0	M Ω
* R_{g3-k} max.	3.0	M Ω
R_{h-k} max.	20	k Ω
V_{h-k} max.	100	V

* For $v_{ga(pk)}$ not exceeding +10 V.

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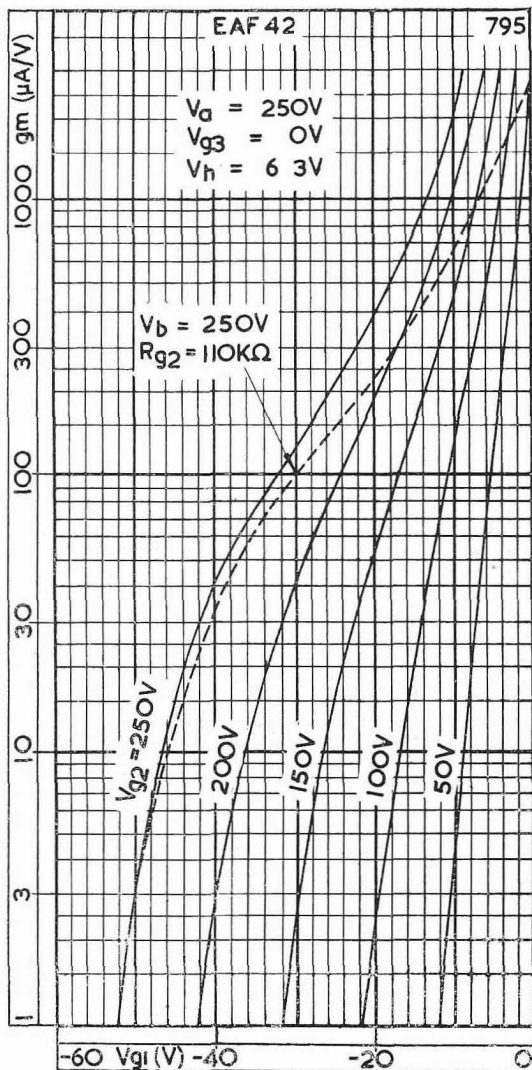


ANODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE

EA F42

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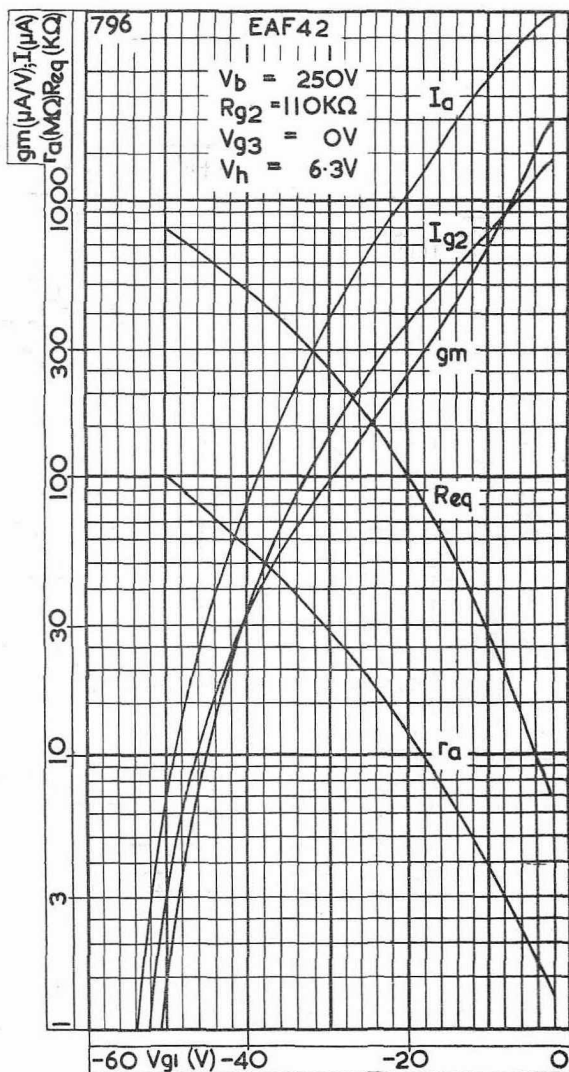


MUTUAL CONDUCTANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE

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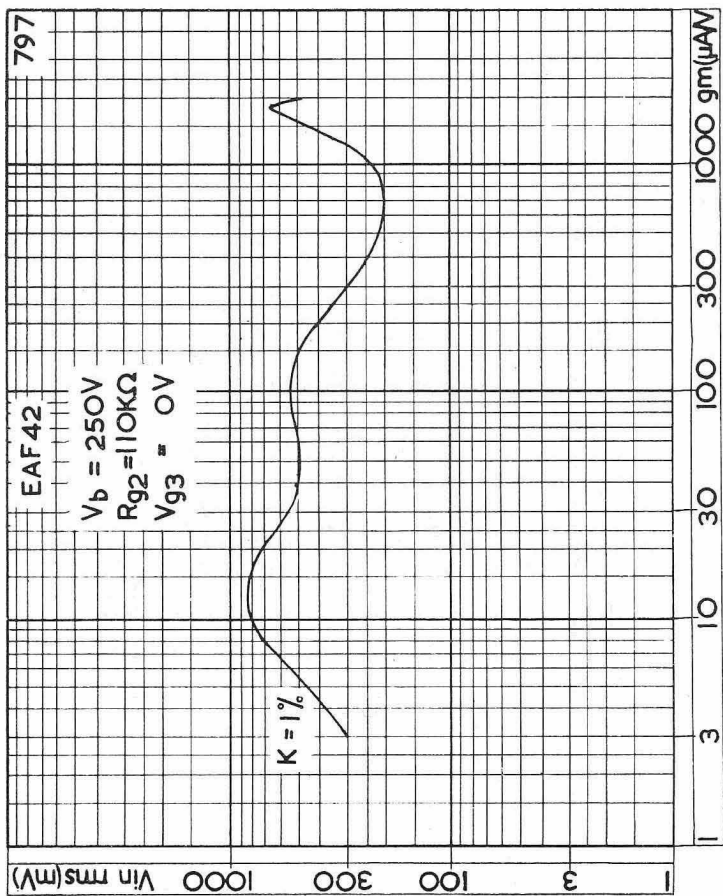


ANODE CURRENT, SCREEN GRID CURRENT, MUTUAL CONDUCTANCE, EQUIVALENT NOISE RESISTANCE AND INTERNAL RESISTANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE

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CROSS MODULATION CURVE