SUBMINIATURE R.F. PENTODE

EF72

High slope r.f. pentode.

HEATER

V_h	6.3	V
I_h	150	mA

MOUNTING POSITION

Any

Note—Direct soldered connections to the leads of this valve must be at least 5mm from the seal and any bending of the valve leads must be at least 1.5mm from the seal.

COOLING

In operation this valve may become very hot and therefore, in the interests of long life it should be adequately cooled. A suitable method is to mount the valve in a metal clip which conducts the heat away to the chassis and should result in a bulb temperature of approximately 100°C.

CAPACITANCES

Pentode connected

	Shielded	Unshielded	
C_{a-g1}	<0.015	<0.02	pF
C_{in}	4.1	4.0	pF
C_{out}	2.5	2.0	pF

Triode connected

C_{a-g1}	1.65	pF
C_{in}	2.8	pF
C_{out}	4.2	pF

CHARACTERISTICS

Pentode connected

V_a	100	V
V_{g2}	100	V
V_{g1}	−1.4	V
I_a	7.0	mA
I_{g2}	2.2	mA
g_m	5.0	mA/V
r_a	250	kΩ
μ_{g1-g2}	36	
R_{eq}	1.6	kΩ
R_{in} (f = 50Mc/s)	25	kΩ

Triode connected

V_a	100	V
V_{g1}	−1.4	V
I_a	9.2	mA
g_m	6.8	mA/V
r_a	5.3	kΩ
μ	36	

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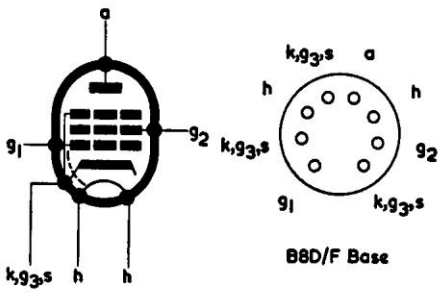
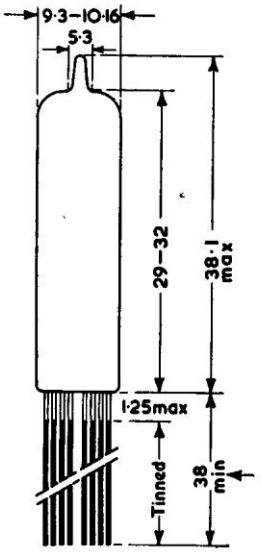
LIMITING VALUES

$V_{a(b)}$ max.	300	V
V_a max.	175	V
$V_{g2(b)}$ max.	300	V
V_{g2} max.	175	V
p_a max.	800	mW
p_{g2} max.	300	mW
p_{a+g2} max.	1.0	W
I_k max.	12	mA
V_{g1} max. ($I_{g1}=+0.3\mu A$)	−1.3	V
R_{g1-k} max.	500	kΩ
V_{h-k} max.	100	V
R_{h-k} max.	20	kΩ



B8D/F Base



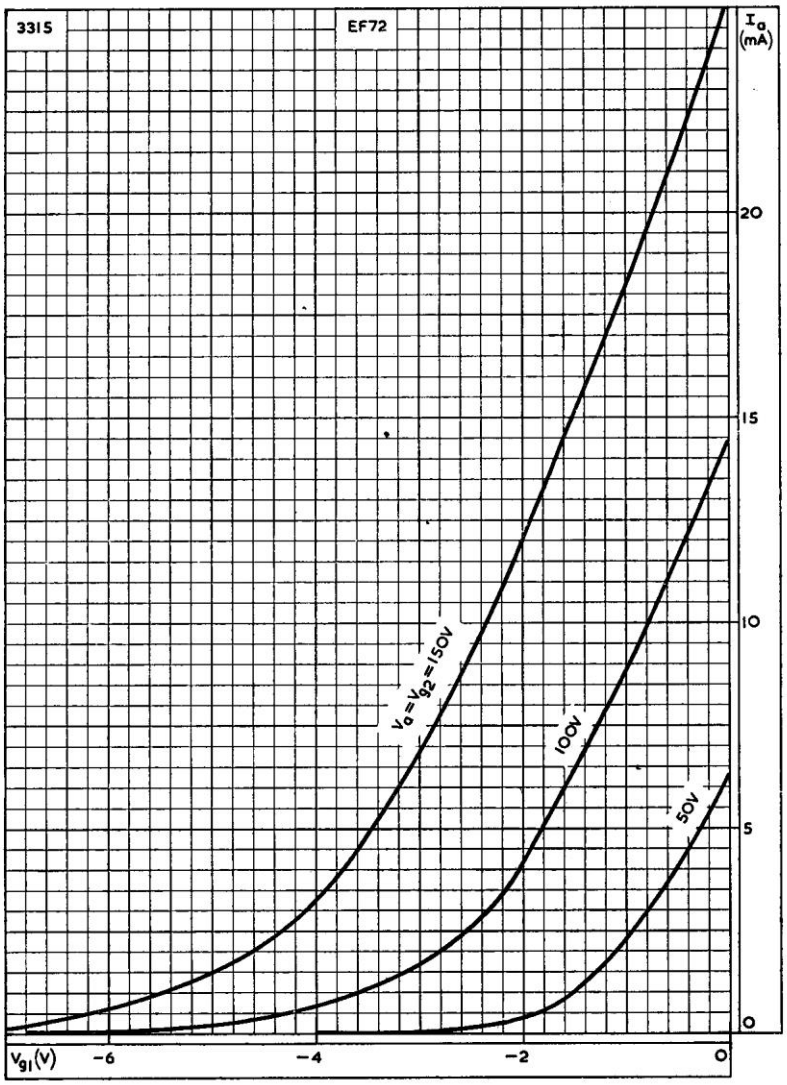
3271

All dimensions in mm

SUBMINIATURE
R.F. PENTODE

EF72

High slope r.f. pentode.

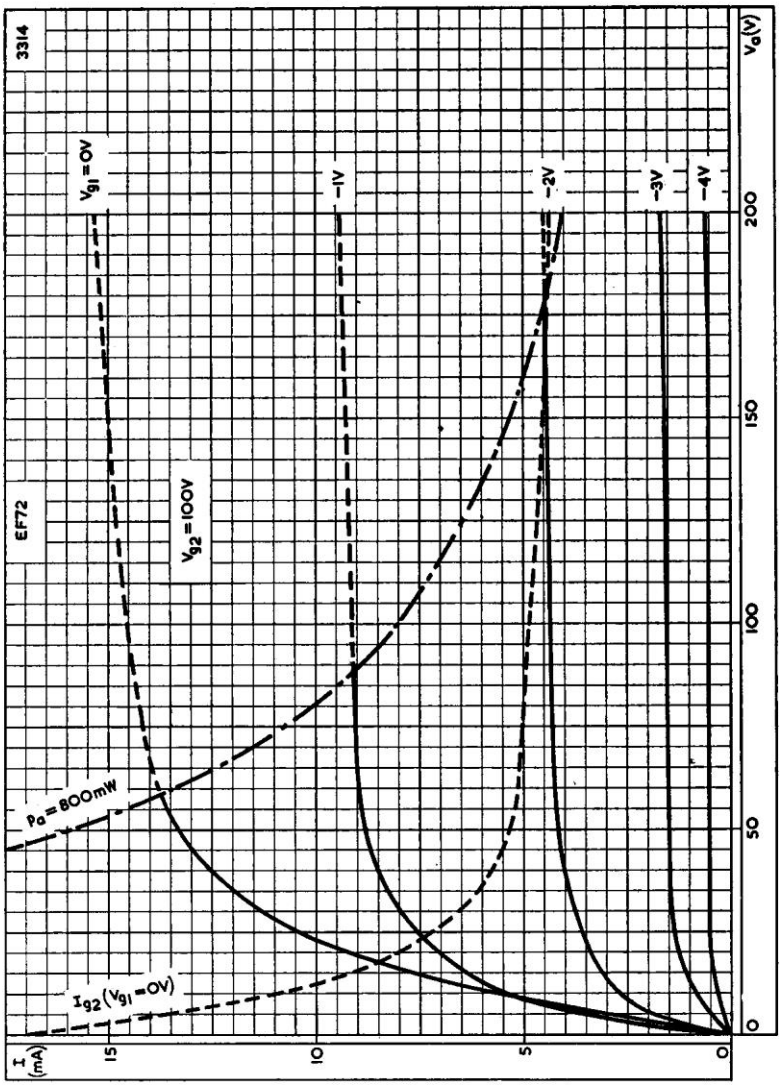


ANODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE FOR VARIOUS VALUES OF ANODE AND SCREEN-GRID VOLTAGES

EF72

SUBMINIATURE R.F. PENTODE

High slope r.f. pentode.

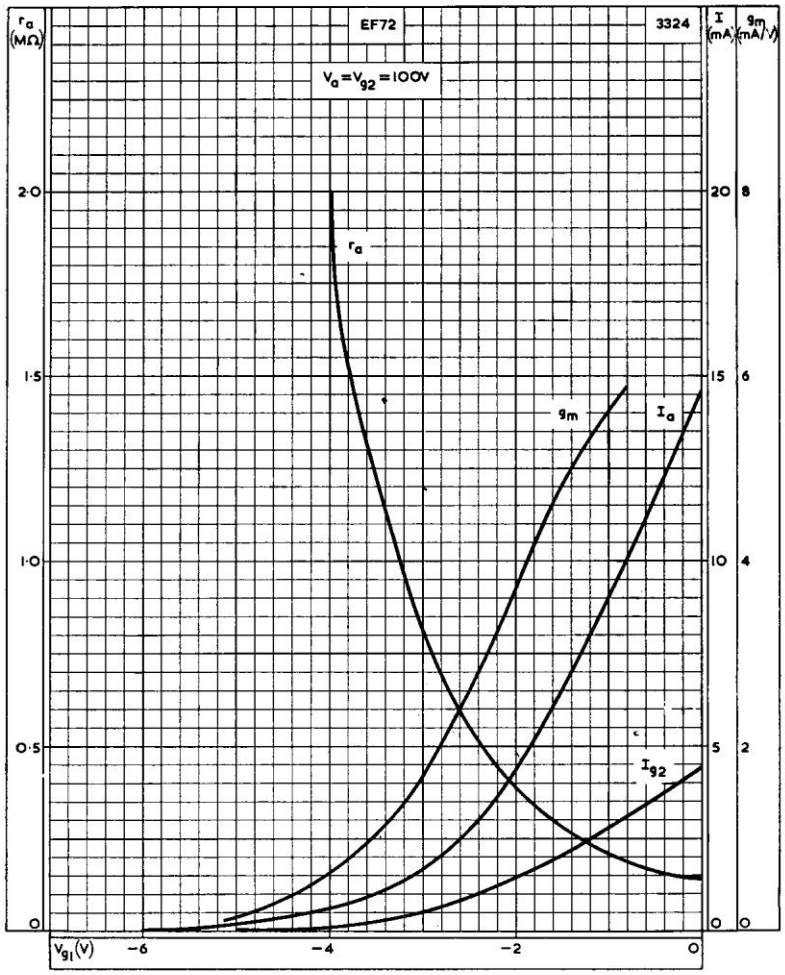


ANODE AND SCREEN-GRID CURRENTS PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER. V_{g_2}=100V

SUBMINIATURE
R.F. PENTODE

EF72

High slope r.f. pentode.

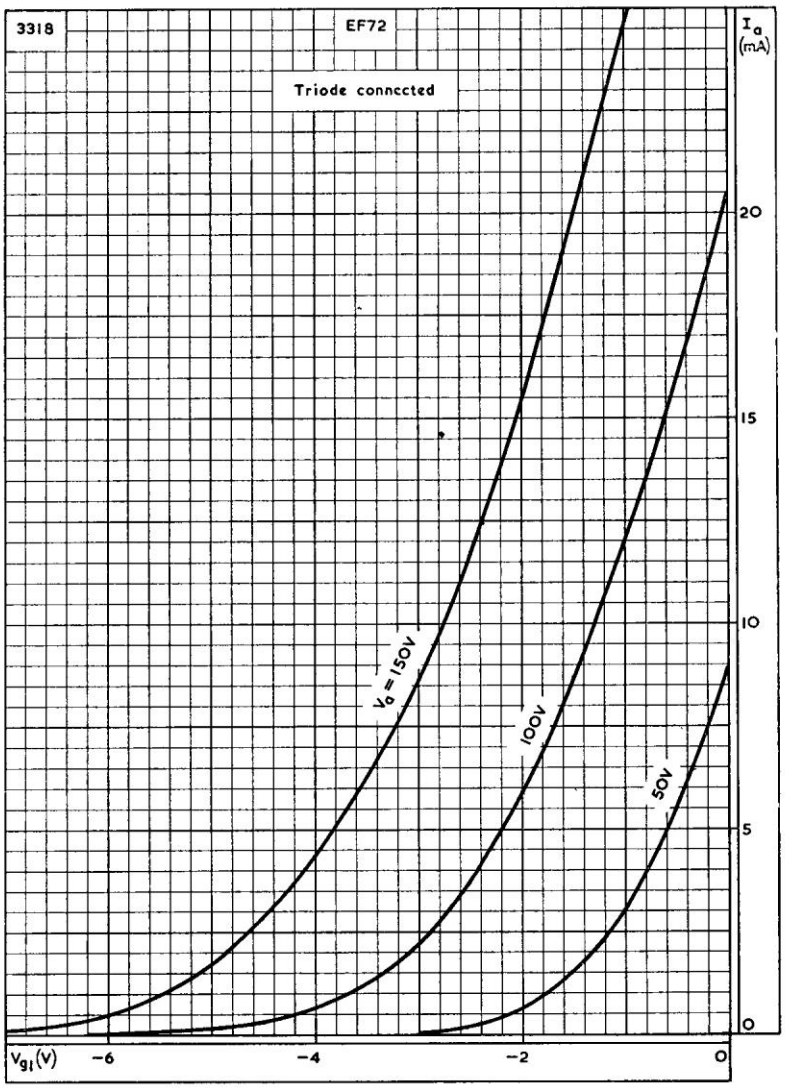


ANODE AND SCREEN-GRID CURRENTS, MUTUAL CONDUCTANCE AND ANODE IMPEDANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE
$V_a = V_{g2} = 100V$

EF72

SUBMINIATURE R.F. PENTODE

High slope r.f. pentode.

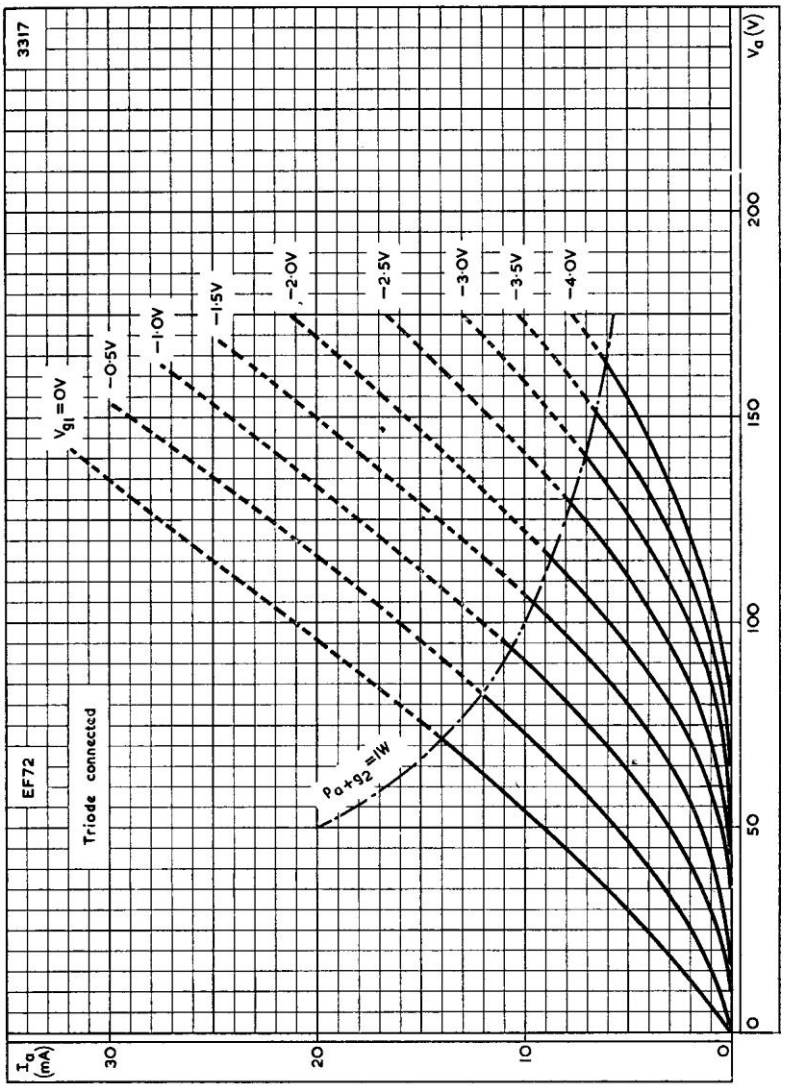


ANODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE FOR VARIOUS VALUES OF ANODE VOLTAGE, WHEN CONNECTED AS A TRIODE

SUBMINATURE
R.F. PENTODE

EF72

High slope r.f. pentode.

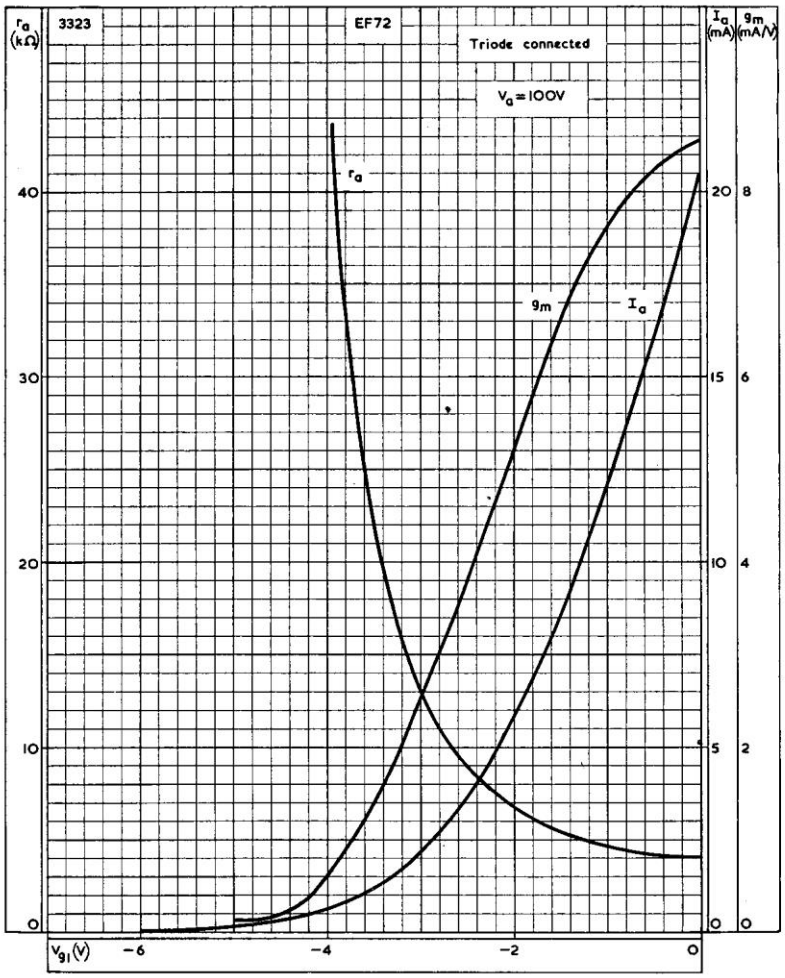


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER, WHEN CONNECTED AS A TRIODE

EF72

SUBMINIATURE R.F. PENTODE

High slope r.f. pentode.



ANODE CURRENT, MUTUAL CONDUCTANCE AND ANODE IMPEDANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE, WHEN CONNECTED AS A TRIODE V_a = 100V