

A.F. OUTPUT PENTODE

Beam pentode intended for use as A.F. power amplifier.

QUICK REFERENCE DATA

Anode current	I_a	110 mA
Transconductance	S	23 mA/V
Amplification factor	$\mu_{g_2g_1}$	13
Output power (class AB)	W_o	40 W

HEATING: Indirect by A.C. or D.C.; parallel supply

Heater voltage

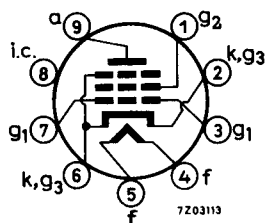
V_f 6.3 V

Heater current

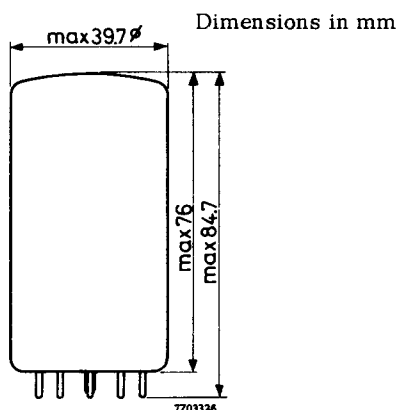
I_f 1.05 A

DIMENSIONS AND CONNECTIONS

Base: Magnoval



7203113



CAPACITANCES

Anode to all except grid No. 1

$C_{a(g_1)}$ 13.5 pF

Grid No. 1 to all except anode

$C_{g_1(a)}$ 22.5 pF

Anode to grid No. 1

C_{ag_1} 1.7 pF

Grid No. 1 to heater

C_{g_1f} 0.325 pF

TYPICAL CHARACTERISTICS

Anode voltage	V_a	250	V
Grid No.2 voltage	V_{g2}	250	V
Grid No.1 voltage	V_{g1}	14.0	V
Anode current	I_a	110	mA
Grid No.2 current	I_{g2}	7.0	mA
Transconductance	S	23	mA/V
Amplification factor	μ_{g2g1}	13	
Internal resistance	R_i	5.4	k Ω

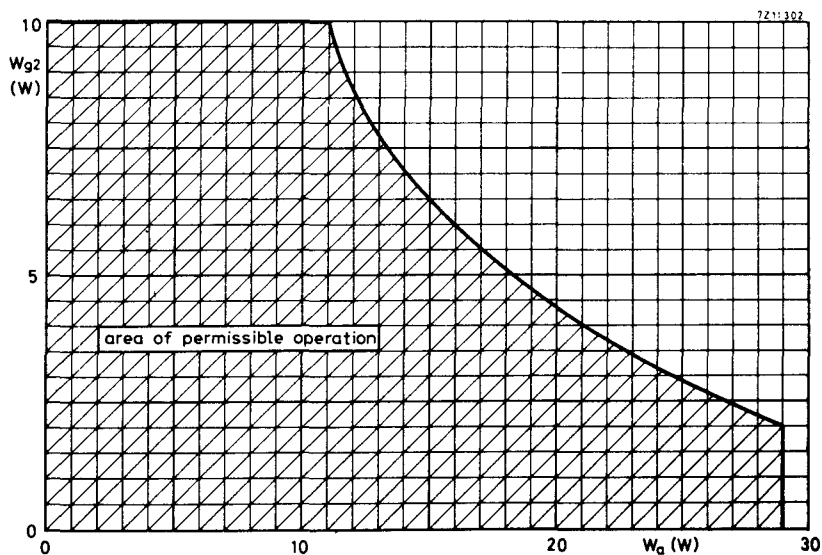
OPERATING CHARACTERISTICS

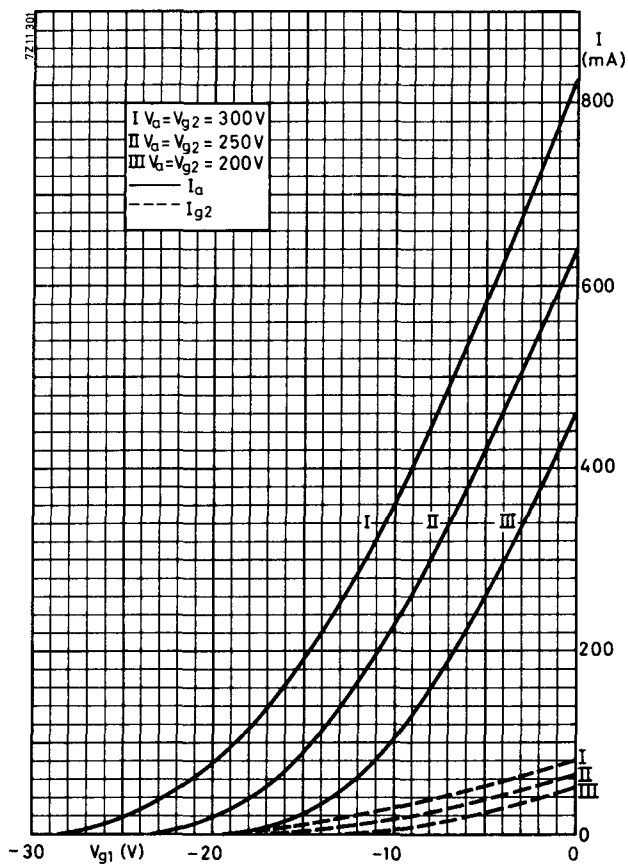
Class AB, two tubes in push-pull

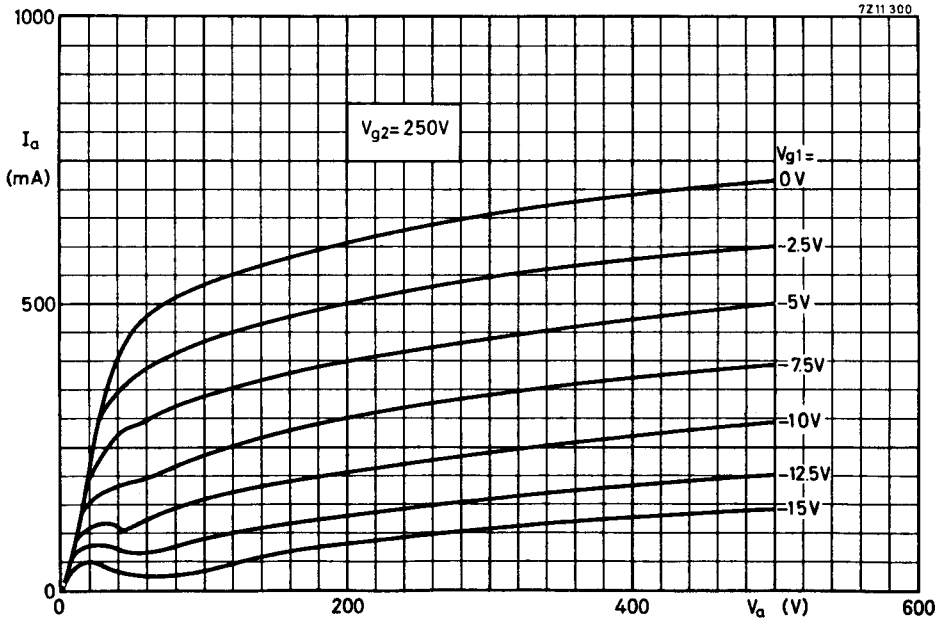
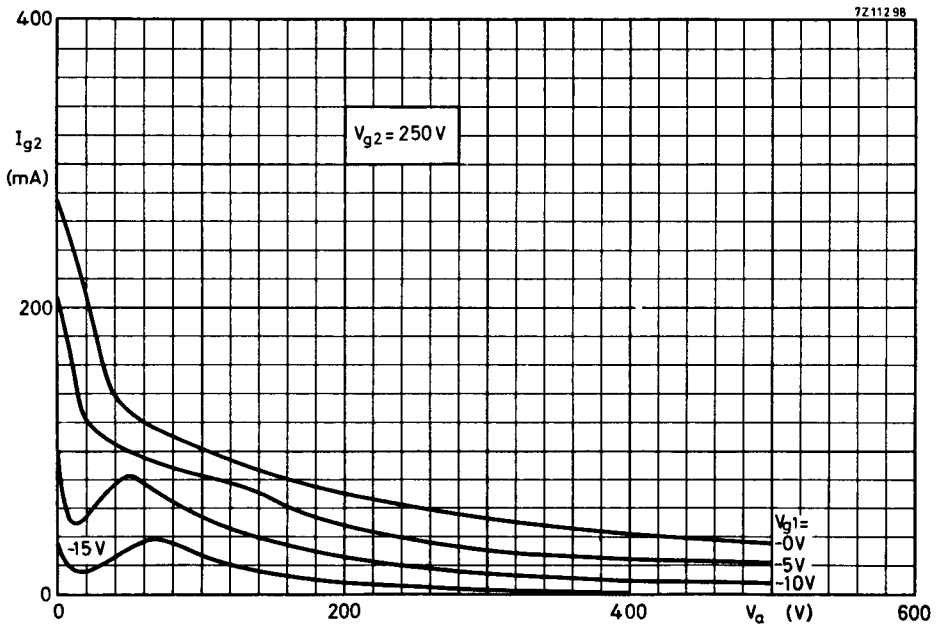
Anode supply voltage	V_{ba}	265	V
Grid No.2 supply voltage	V_{bg2}	265	V
Common cathode resistor	R_k	56	Ω
Load resistance	$R_{aa\sim}$	2.4	k Ω
Grid No.1 driving voltage	V_i	0 12.2	V_{RMS}
Anode current	I_a	2x115 2x125	mA
Grid No.2 current	I_{g2}	2x7.5 2x35.0	mA
Output power	W_o	0 40	W
Distortion	d_{tot}	- 5	%

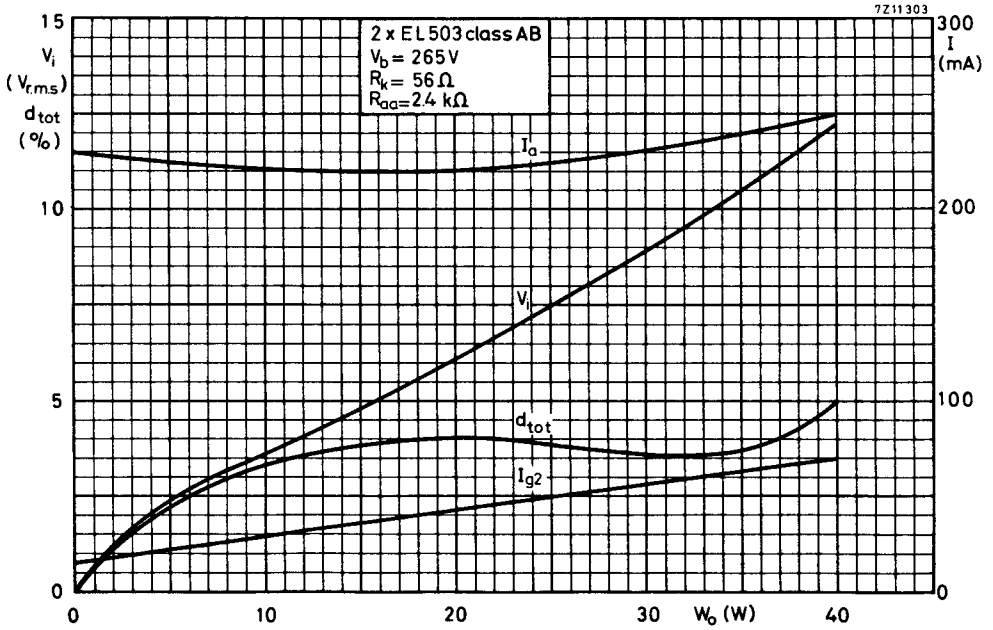
LIMITING VALUES (Design centre rating system)

Anode voltage	V_{a0}	max. 550 V
	V_a	max. 300 V
Grid No.2 voltage	V_{g20}	max. 550 V
	V_{g2}	max. 300 V
Anode dissipation	W_a	see below
Grid No.2 dissipation		
average	W_{g2}	see below
peak	W_{g2p}	see below
Cathode current	I_k	max. 200 mA
Grid No.1 resistor, automatic bias	R_{g1}	max. 0.5 M Ω
Cathode to heater voltage	V_{kf}	max. 100 V









LINE OUTPUT PENTODE

Beam pentode intended for use as line output tube in television receivers.

HEATING: Indirect by A.C. or D.C.; parallel supply

Heater voltage	V_f	6.3	V
Heater current	I_f	1.38	A

LIMITING VALUES (Design centre rating system)

Cathode to heater voltage,

DC + peak, k positive	V_{kf}	max. 200	V
k negative	$-V_{kf}$	200	V ¹⁾

 For further data and curves of this type
 please refer to type PL 504

¹⁾ DC component max. 100 V.

