



Chelmer Valve

738-177

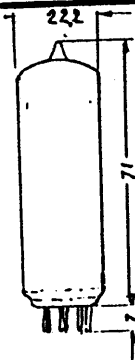
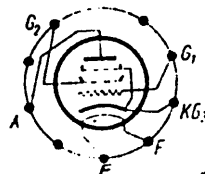
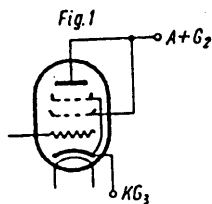
electronic tube

EL84

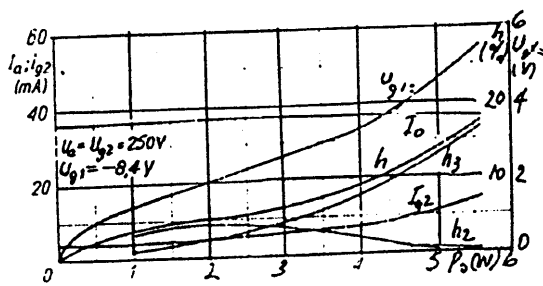
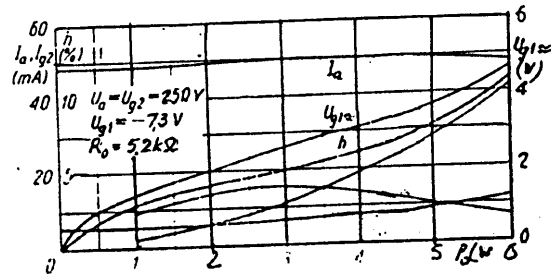
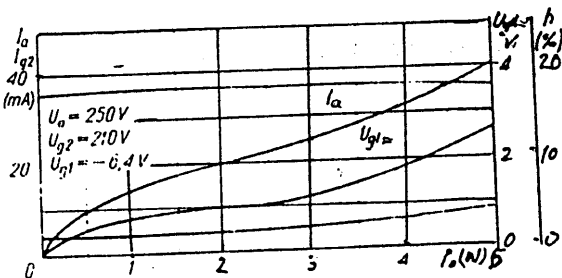
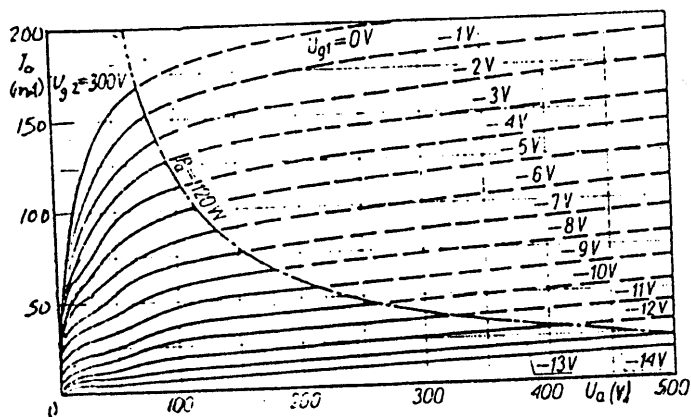
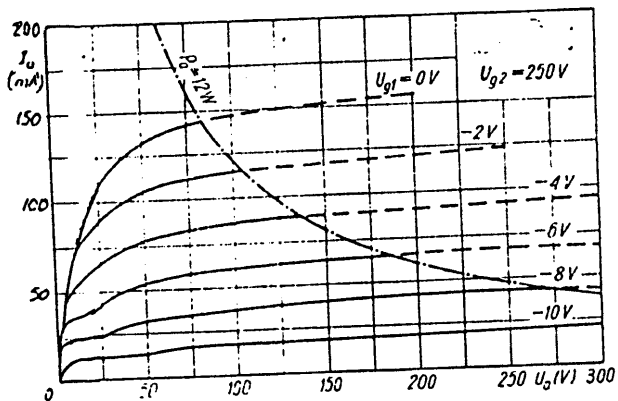
BRIEF DESCRIPTION: This is a miniature 9-pin (B9A) power pentode used typically in the output stage of audio frequency amplifiers. Maximum anode dissipation is 12 watts & with 2 tubes, push-pull (class AB1) maximum-signal power output is 17 watts.

U_f	I_f	Cl.	U_a	U_{g2}	U_{g1}	I_a	I_{g2}	S	R_l	R_k	$R_o(R_{a/a})$	P_o	U_{g1}	h	P_{g2}	P_a			
V	A		V	V	V	mA	mA	mA/V	k Ω	Ω	k Ω	W	V	%	W	W			
6,3	0,76	stat	250	250	-7,3	48	5,5	11,3	38										
			250	250	-7,3	48 ÷ 49,2	5,5 ÷ 11,6	11,3	38	135	5,2	6	4,7	10					
			250	250	-7,3	48 ÷ 50,5	5,5 ÷ 11	11,3	38	135	4,5	6	4,8	10					
		A	250	250	-8,4	36 ÷ 36,8	4,1 ÷ 14,6	10	40	200	7	5,6	5,5	10					
			250	210	-6,4	36 ÷ 36,5	3,9 ÷ 8	10,4	40	160	7	4,7	3,8	10					
			250	250	-	62 ÷ 75	7 ÷ 15			130	(8)	11	8	3					
		AB	250	250	-	72 ÷ 92	8 ÷ 22			130	(8)	17	10	4					
			300	300	-														
			250	250	-11,6	20 ÷ 75	2,2 ÷ 15				(8)	11	8	3					
		B	300	300	-14,7	15 ÷ 92	1,6 ÷ 22				(8)	17	10	4					
			250	-	-9	34 ÷ 36	-				270	3,5	1,95	6,7	9				
			250	-	-	40 ÷ 43,4	-				270	(10)	3,4	8,3	2,5				
AB	300	-	-	48 ÷ 52	-				270	(10)	5,2	10	2,5						
	300	300	-100											2	12				

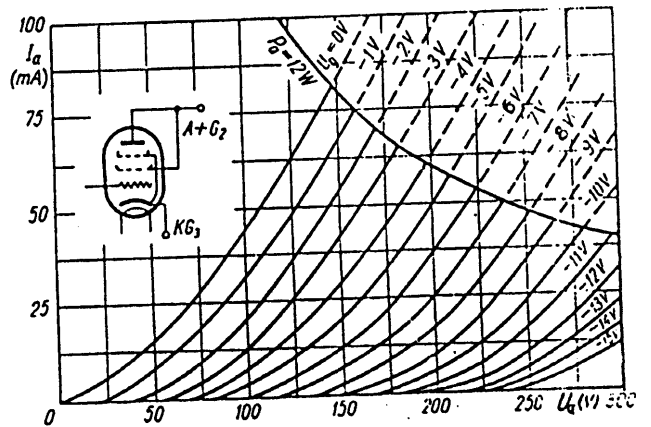
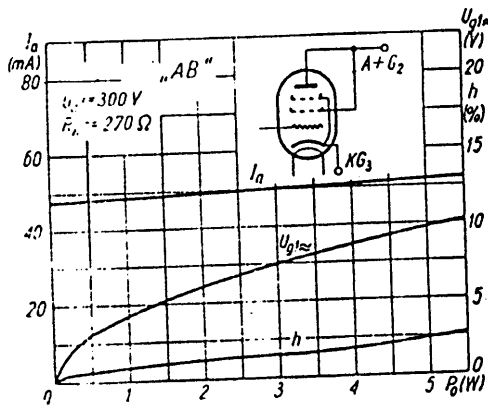
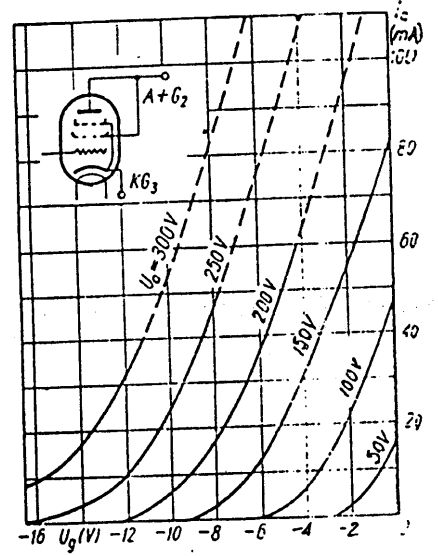
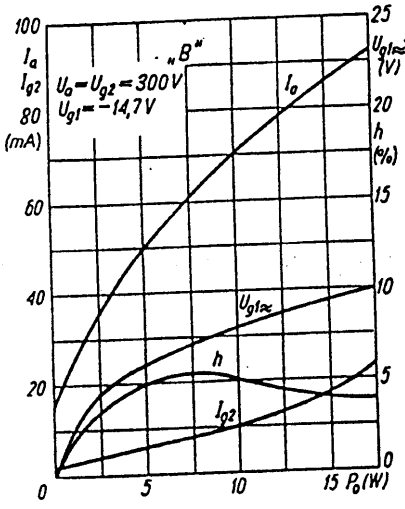
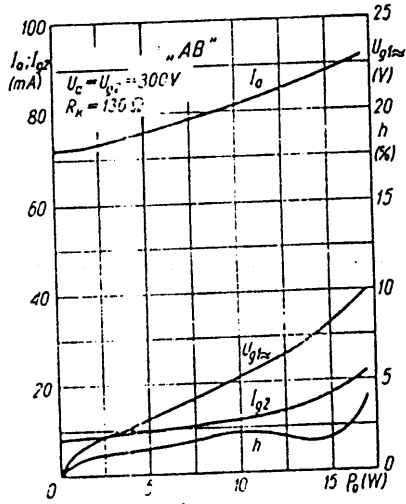
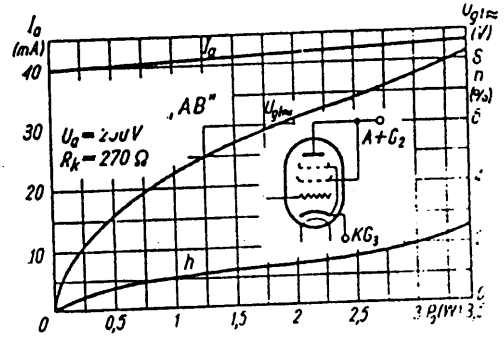
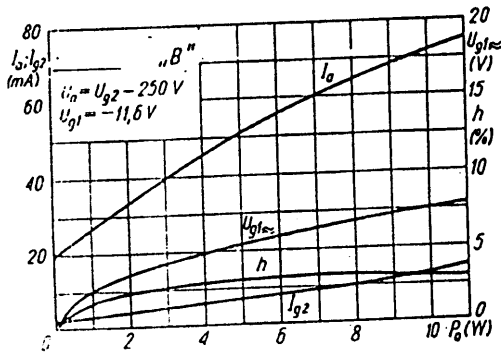
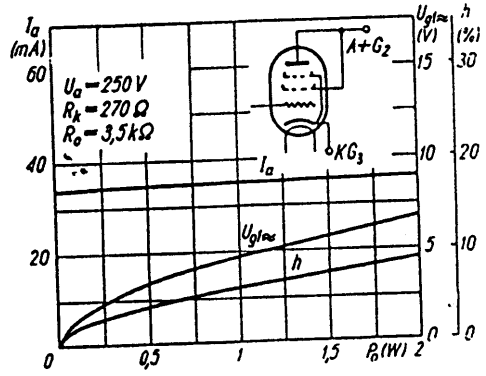
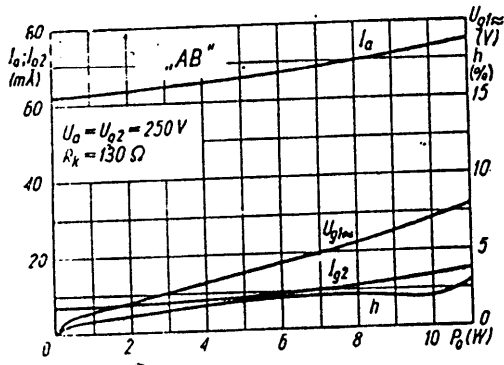
maximum $I_k = 65 \text{ mA}$; $U_{fk} = 100 \text{ V}$; $\mu(g2/g1) = 19$



C_{g1}	C_a	$C_{g1/a}$	$C_{g1/f}$
pF	pF	pF	pF
10,8	6,5	0,5	0,25



EL84 (E84L)



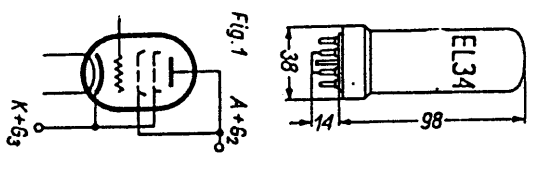
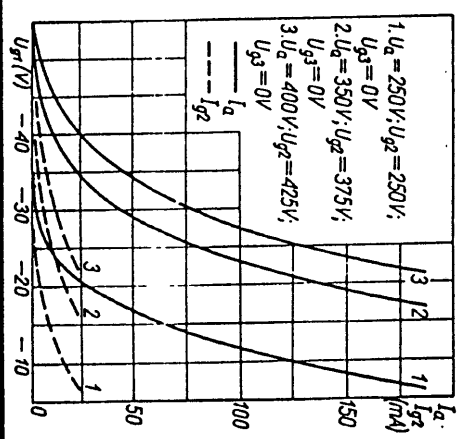
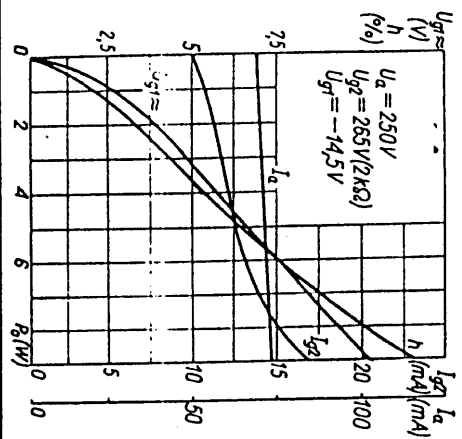
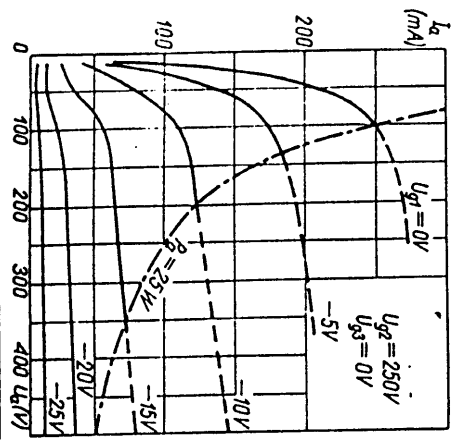
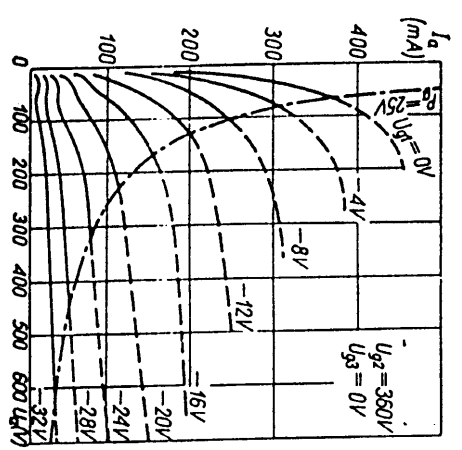
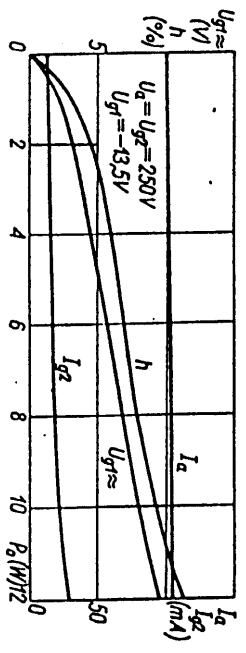
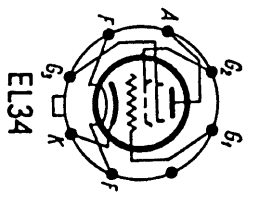
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U_f	I_f	C_i	$U_{h/f}$	U_a	U_{h/g^2}	R_{g^2}	U_{g^2}	U_{g^1}	I_a	I_{g^2}	S	R_i	R_k	R_o	P_o	$U_{g^1_{rms}}$	h	
V	A		V	V	V	Ω	V	V	mA	mA	mA/V	k Ω	Ω	k Ω	W	V	%	
6.3	1.5	A	265	250	265	2000	235	-14.5	70-73	10-15	9	18		3	8	9.3	10	
		AB	265	250	265	1000	425	-13.5	100-105	14.9-29	11	15		2	11	8.7	10	
		AB	430	430	430	1000	425		125-130	10-10.2				6.6	20	16	0.8	
		AB	430	430	430	1000	425		125-140	10-15				6.6	37	26	1.3	
		AB	375	315	375	470	324	-32	150-190	2.3-4.5	Fig. 2	130		3.4	3.4	35	21	5
		B	375	325	350	470	327	-32	70-190	9.5-50	Fig. 3			3.8	3.6	36	22.7	6
		B	375	350	375	470	352	-32	70-240	9.5-50	Fig. 4			2.8	44	44	22.7	5
		B	400	375	400	1000	350	-38	60-200	8.8-50				4	45	27	5	
		B	425	400	425	1000	375	-38	60-240	8.8-50				3.4	55	27	5	
		B	475	450	475	750	338	-36	60-204	8-50				5	58	25.8	6	
		B	500	475	500	750	363	-36	60-250	8-50				4	70	25.8	5	
		B	750	725	750	750	347	-39	50-168	6-38	Fig. 5			11	90	23.4	6	
B	800	775	800	750	372	-39	50-182	6-38				11	100	24.4	5			
A	375	348	375	370	—	—	—	70-73.5	—	Fig. 1	220		3	6	16.5	8		
AB	400	370	400	800	—	—	—	130-142	—		370		5	5	18.9	8		

$P_a = 25$ W; $P_{g^2} = 8$ W; $P_{g^1} = 11$ W; $m(g^1/g^2) = 11$;
 $R_{g^1} = 0.7$ M Ω ; $U_{f/k} = 100$ V

TYPICAL CHARACTERISTICS

CAPACITANCES	C_{g^1}		$C_{g^1/a}$		$C_{g^1/f}$		$C_{h/f}$	
	PF	PF	PF	PF	PF	PF	PF	PF
	15.4	8.4	1.1	1			10	



Chelmer Valve

electronic tube

EL34