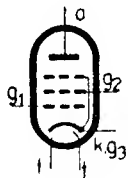
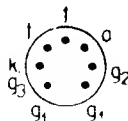


Type Application	Dimensions Base	Heating		Operational Data			Maximum Ratings	
		Static data						
6L31 6AQ5	Size M 2	U_f	6,3 V	AF power amplifier, class A			U_{ao}	500 V
		I_f	0,45 A	U_a	180	250 V	U_a	315 V
		Indirect heating		U_{g2}	180	250 V	W_a	12 W
		U_a	250 V	U_{g1}	-8,5	-12,5 V	U_{g2o}	500 V
		U_{g2}	250 V	I_{ao}	29	45 mA	U_{g2}	285 V
		U_{g1}	-12,5 V	I_a	30	47 mA	W_{g2o}	2,5 W
		I_a	45 mA	I_{g2o}	3	4,5 mA	W_{g2}	3 W
		I_{g2}	<8,5 mA	I_{g2}	4	7 mA	I_k	60 mA
		S	4,1 mA/V	R_i	58	52 k Ω	R_{g1}	0,5 M Ω
		R_i	52 k Ω	S	3,7	4,1 mA/V	$R_{g1}^{1)}$	0,1 M Ω
		I_{az} ($U_{g1} = -30$ V)	<8 mA	R_a	5,5	5 k Ω	$U_{k/f}$	100 V
				P_o	2	4,5 W		
				k	8	8 %		
				AF push-pull amplifier, class AB			1) U_{g1} fixed	
				U_a	250	V	Capacitances	
				U_{g2}	250	V	$C_{a/g1}$	<0,6 pF
				U_{g1}	-15	V		
				I_{ao}	2×35	mA		
				I_a	2×39,5	mA		
				I_{g2o}	2×2,5	mA		
				I_{g2}	2×6,5	mA		
				$R_{c-a'}$	10	k Ω		
				$U_{g1 ef}$	10,5	V		
				P_o	10	W		
				k	5	%		

Diagram of the 6L31/6AQ5 vacuum tube. The top view shows a circular base with pins labeled 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12. The side view shows the internal structure with labels: 0 (top), 1 (top), 2 (top), 3 (top), 4 (top), 5 (top), 6 (top), 7 (top), 8 (top), 9 (top), 10 (top), 11 (top), 12 (top).

Output beam tetrode
AF power amplifier



Output beam tetrode
AF power amplifier