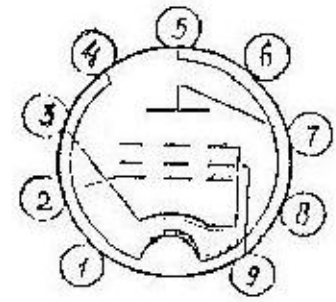
EL84EH

1. GENERAL

Output pentode in miniature glass envelope with indirectly heated cathode designed for use as low frequency power amplifier of radiotechnic devices.

Scheme of electrode connections.

Pin number	Electrodes
1,6 and 8	Don't connect
2	First grid
3	Cathode, third grid
4 , 5	Heater
7	Plate
9	Second grid



2. BASIC SPECIFICATIONS

Electric Characteristics At Delivery

Parameters, measures	Rate	Notes
Heater current, ma: min max	 700 820	1
Plate current, ma min max	 44 64	1,2,3,4
The second grid current, ma, max	10	1,2,3,4
The first grid reverse current, μa, max	1	1,2,3,4,5
Transconductance, ma/V: min nom	 9,0 11,3	1,2,3,4
Unlinear distortion ratio, %, max	17	1,2,3,4,6,7
Output power, W, min	5,5	1,2,3,4,6,7
Output power at underheating, W, min	5,0	2,3,4,6,7,9
Cathode-to-heater insulation resistance, MOhm, min	5,0	1,8
Input capacitance, pF nominal	 11	
Output capacitance, pF, nominal	7,0	
Transfer capacitance, pF nominal	0.2	

NOTES:

1. Heater voltage 6,3v
2. Plate voltage 250v
3. First grid voltage -7,3
4. Second grid voltage 250v
5. Grid circuit resistance 0,51 MOhm
6. The first grid alternating effective voltage 5,2v
7. Resistance in plate circuit 5,2 KOhm
8. Cathode-to-heater voltage ±100v
9. Heater voltage 5,7v

Electric Characteristics Changing During Operation

Parameters, measures	Rate
The first grid reverse current, μa max	 1,5
Output power at normal ambient temperature, W, min	4,0

Maximum Ratings

Heater voltage, v min max	 5,7 7,0
Plate voltage, v, max	300
Plate voltage at zero tube current (cathode current is no more than 10 μa), v, max	500
The second grid voltage, v, max	300
The second grid voltage at zero tube current (cathode current is no more than 10 μa), v, max	500
The first grid negative voltage, v, max	100
Cathode-to-heater voltage, v, max	±100
Resistance in the first grid circuit, MOhm, max	1.0
Cathode current, ma, max	65
Plate dissipated power, w, max	14
The second grid dissipated power, W, max	2,2
Envelope temperature in the most heated part against the plate, K, max	573