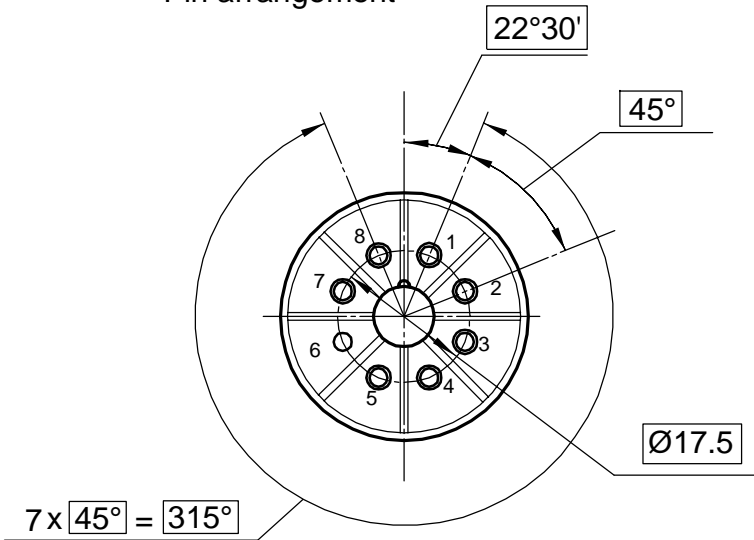
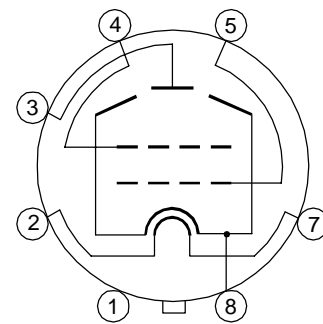


Vacuum tube KT77 Genalex is a beam tetrode in the glass bulb with octal base, with equipotential cathode, designed to amplify low frequency power in the output stages of HI - FI audio.

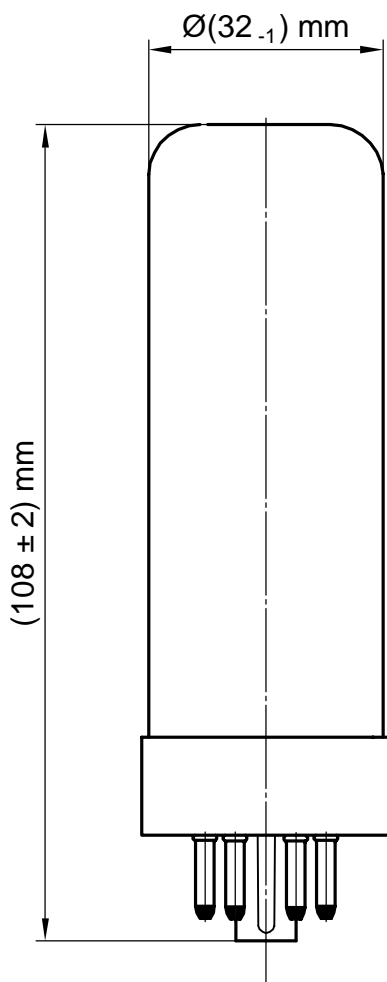
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



Lead designation	Name of electrode
1	Free
2, 7	Heater
3	Plate
4	Grid 2
5	Grid 1
6	No
8	Cathode, beam-forming screen

# Electrical parameters

KT77 Genalex

Parameters, conditions and units	Nominal	
	min	max
First grid reverse current, $\mu\text{A}$ (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 11 V, second grid voltage 250 V, first grid circuit resistance 0.51 M $\Omega$ )	—	1.0
Heater current, A	1.45	1.7
Plate current, mA (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 11 V, second grid voltage 250 V )	80	130
Second grid current, mA (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 11 V, second grid voltage 250 V )	—	17
Output power, W (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 11 V, second grid voltage 250 V, plate circuit resistance 2.0 k $\Omega$ , first grid alternating voltage, efficacious 7.8 V )	7.0	—
First grid cut-off voltage, negative, V (at: filament voltage 6.3 V, plate voltage 250 V, second grid voltage 250 V )	—	40
Slope of characteristic, mA/V (at: filament voltage 6.3 V, anode voltage 250 V, first grid voltage minus 11 V, second grid voltage 250 V )	8.5	14
Distortion factor,% (at: filament voltage 6.3 V, plate voltage 250 V, first grid voltage minus 11 V, second grid voltage 250 V, plate circuit resistance 2.0 k $\Omega$ , first grid alternating voltage, efficacious 7.8 V )	—	14
Cahtode - heater insulation resistance, M $\Omega$ (at: filament voltage 6.3 V cathode -heater voltage $\pm 300$ V)	10	—

## Operating conditions limits

Parameters, units	Nominal	
	min	max
Filament voltage, V	5.7	7.0
Second grid voltage, V	—	600
Cathode - heater voltage, V	—	$\pm 300$
Cathode current, mA	—	180
Power dissipation at the plate, W	—	25
Power dissipation at the second grin, W	—	6
First grid circuit resistance for each, M $\Omega$ fixed bias	—	0.51
self - bias	—	1.0
Temperature at the most heated part of the envelope, K $^{\circ}$	—	523

