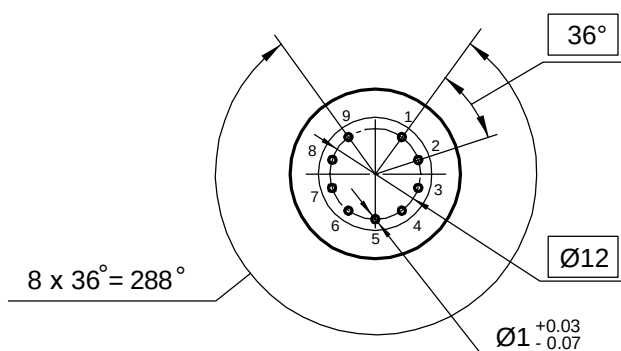
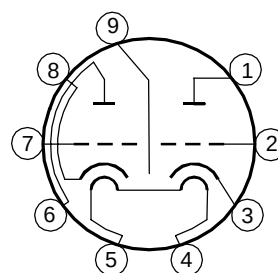


Vacuum tube 6AQ8EH is a miniature twin triode with equipotential cathodes, designed to amplify low frequency voltage in radio engineering devices.

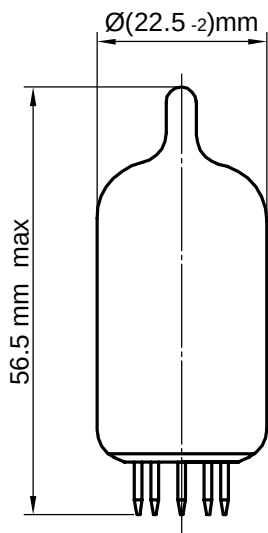
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



| Lead designation | Name of electrode     |
|------------------|-----------------------|
| 1                | Second triode plate   |
| 2                | Second triode grid    |
| 3                | Second triode cathode |
| 4, 5             | Heater                |
| 6                | First triode plate    |
| 7                | First triode grid     |
| 8                | First triode cathode  |
| 9                | Screen                |

## Electrical parameters

| Parameters, conditions and units                                                                                                                                | Nominal |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
|                                                                                                                                                                 | min     | max      |
| Heater current, mA                                                                                                                                              | 400     | 485      |
| Grid reverse current, $\mu\text{A}$ , ( at: filament voltage 6.3 V, plate voltage 250 V, grid voltage minus 2.3 V, resistance in grid circuit 0.25 M $\Omega$ ) | —       | 0.2      |
| Plate current, mA, ( at: filament voltage 6.3 V, plate voltage 250 V, grid voltage minus 2.3 V)                                                                 | 7       | 14       |
| First and second triodes plate current difference, %<br>( at: filament voltage 6.3 V, plate voltage 250 V, grid voltage minus 2.3 V)                            | —       | $\pm 30$ |
| Plate current at the beginning of the characteristic, $\mu\text{A}$<br>( at: filament voltage 6.3 V, plate voltage 250 V, grid voltage minus 12 V)              |         | 50       |
| Slope of characteristic, mA/V ( at: filament voltage 6.3 V, plate voltage 250 V, grid voltage minus 2.3 V)                                                      | 4.5     | 6.9      |
| Amplification factor ( at: filament voltage 6.3 V, plate voltage 250 V, grid voltage minus 2.3 V)                                                               | 44      | —        |
| Cathode - heater insulation resistance, M $\Omega$<br>( at: filament voltage 6.3 V, cathode -heater voltage $\pm 200$ V)                                        | 20      | —        |

## Limiting Values

| Parameters, units                                                         | Nominal |           |
|---------------------------------------------------------------------------|---------|-----------|
|                                                                           | min     | max       |
| Filament voltage, V                                                       | 6       | 6.6       |
| Plate voltage, V                                                          | —       | 300       |
| Cathode - heater voltage, V                                               | —       | $\pm 200$ |
| Cathode current, mA                                                       | —       | 15        |
| Power dissipation at the plate of each triode, W                          | —       | 2.5       |
| Grid circuit resistance for each of the triodes, M $\Omega$<br>fixed bias | —       | 0.25      |
| self - bias                                                               | —       | 1.0       |
| Grid voltage, negative, V                                                 | —       | 100       |

