



GL101 Specification

Anode Parameter

Peak forward anode voltage:	20 kV
Peak anode current:	500 A
Average anode current:	0.5 A
Rate of rise of anode current:	2000 A/ μ s
Anode heating factor:	10×10^9 VApps
Maximum pulse power:	5MW

Grid drive

Unloaded grid 2 drive pulse voltage:	200V $\sim$ 500V
Grid 2 pulse duration:	2 μ s
Rate of rise of grid 2 pulse:	2kV/ μ s
Peak inverse grid 2 voltage:	200V max
Forward impedance of grid 2 circuit:	50 $\Omega \sim$ 200 Ω

Heater

Cathode heater voltage:	6.3V $\pm$ 5%V ac
Cathode heater current:	5.0A $\sim$ 8.5A
Reservoir heater voltage:	6.3V $\pm$ 5%V ac
Reservoir heater current:	2.0A $\sim$ 4.0A
Minimum heater time:	5min

Mechanical

Mounting position:	Any
Net weight:	360g approx
Dimension and tube connections:	See outline
Cooling way:	Forced-air and natural (see notes)

Notes

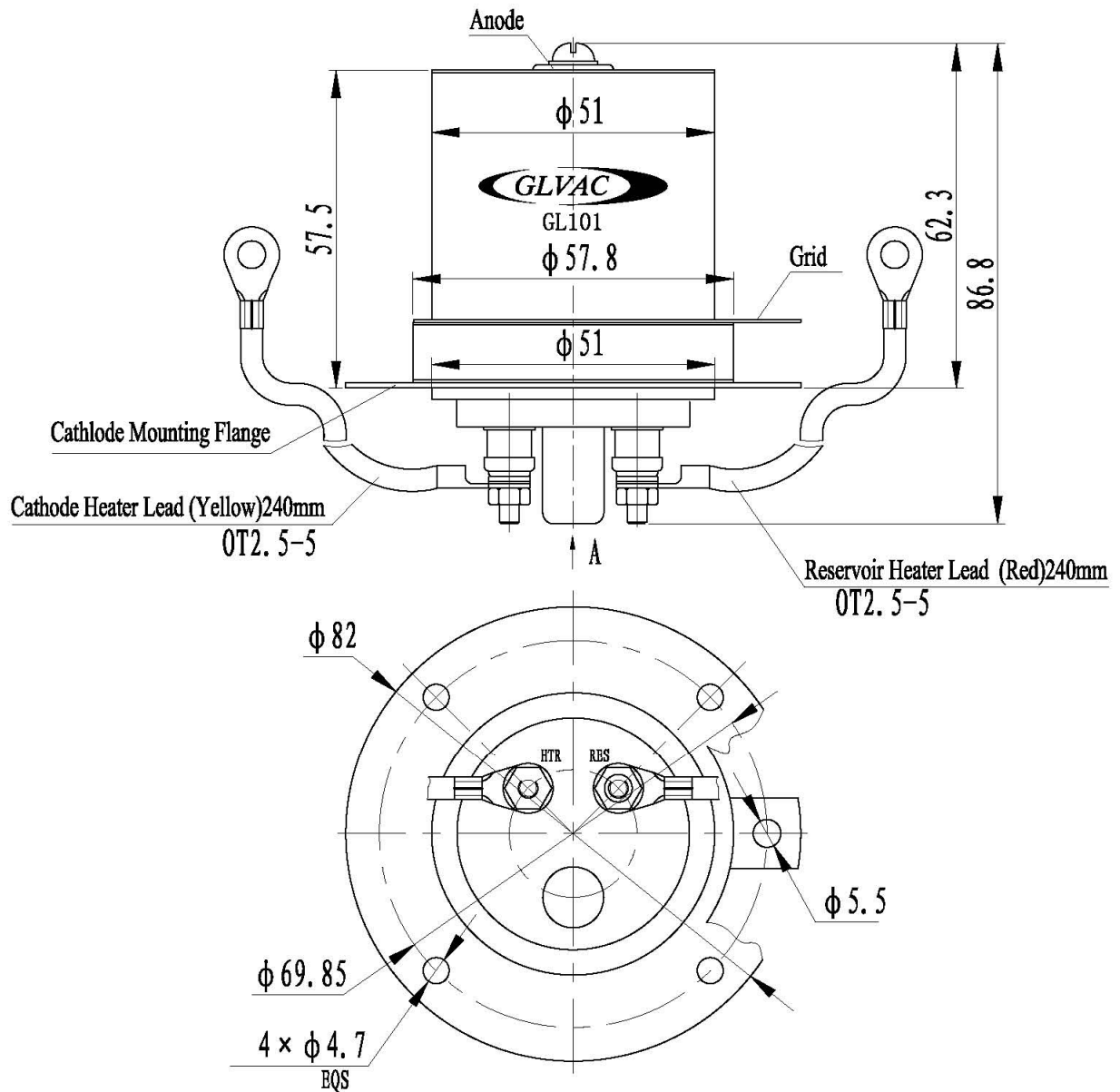
The temperature of the envelope must not exceed the value specified below.

Ceramic, anode and grids.....150 $^{\circ}$ C

Cathode mounting flange and base.....120 $^{\circ}$ C

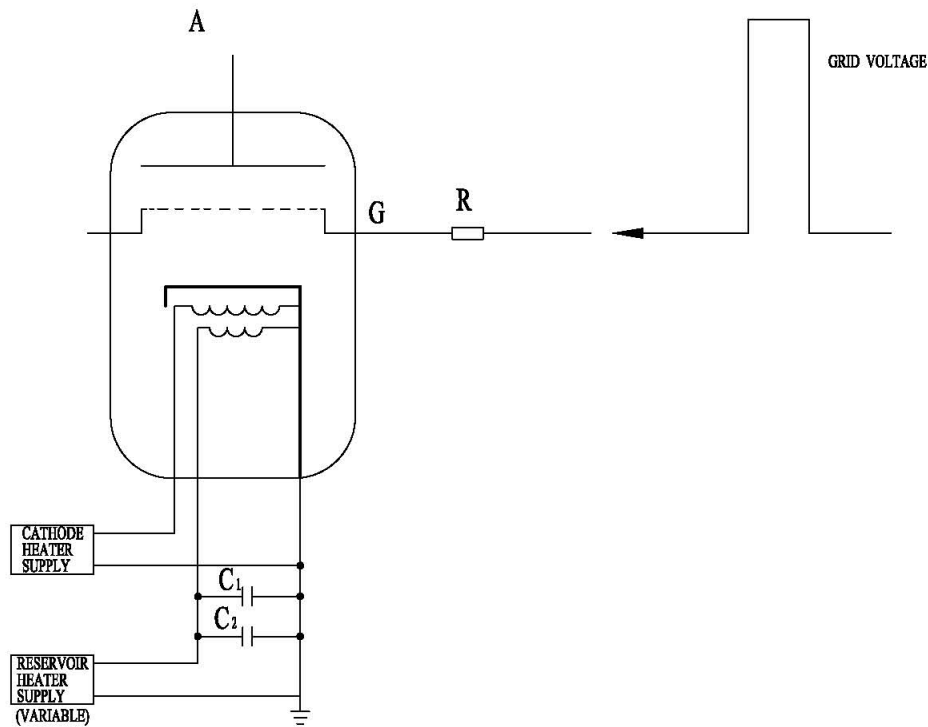


OUTLINE





SCHEMATIC DIAGRAM



- R_1 , Grid 1 series resistor. 12 W vitreous enameled wire wound is recommended, of a total impedance to match the grid 1 drive pulse circuit.
- R_2 , Grid 2 series resistor. 12 W vitreous enameled wire wound is recommended, of a total impedance to match the grid 2 drive pulse circuit.
- C_1 , Reservoir protection capacitors, 1000pF low inductance with a voltage rating $\geq 500V$. (e. g. ceramic)
- C_2 , Reservoir protection capacitors, 1 μF with a voltage rating $\geq 500V$. (e. g. polycarbonate or polypropylene)