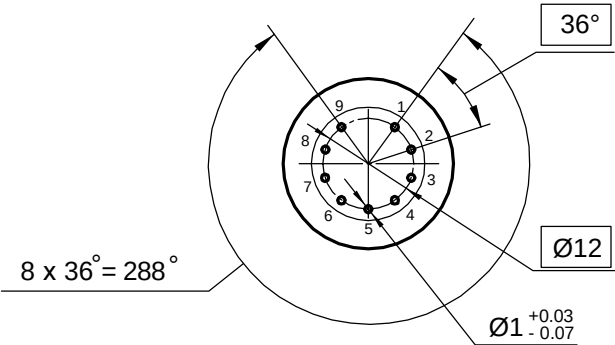
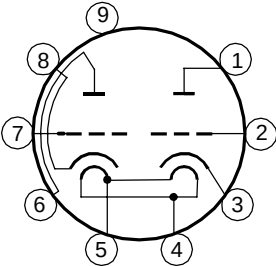


Vacuum tube 6CG7EH is a miniature twin triode with equipotential cathodes, designed to amplify low frequency voltage in radio engineering devices.

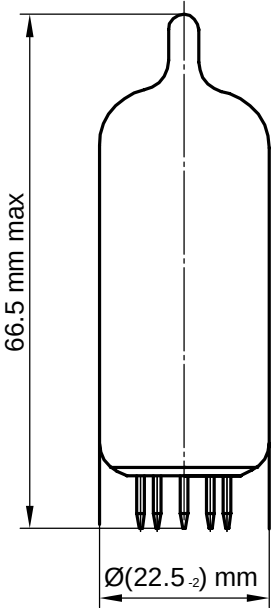
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



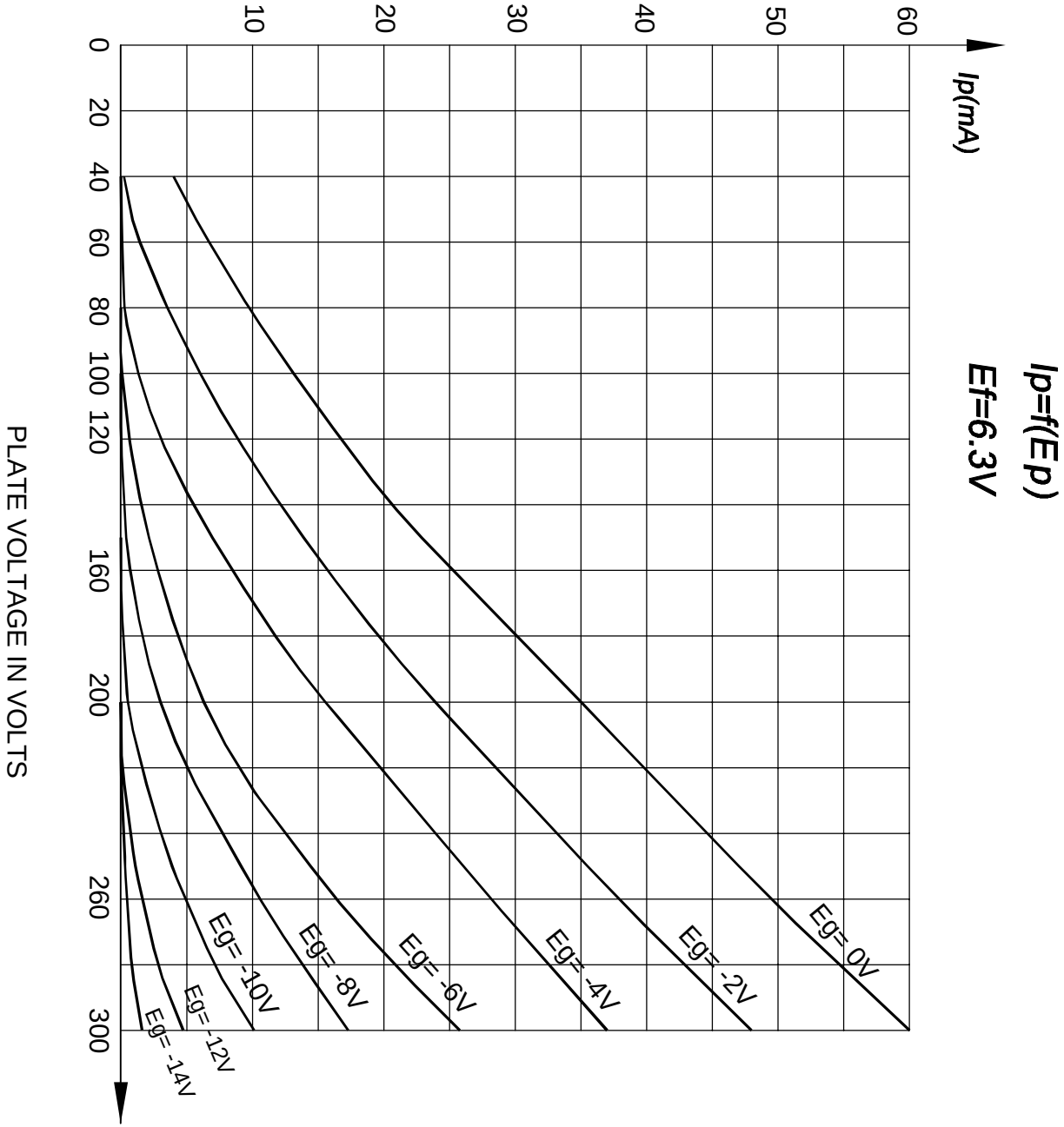
Lead designation	Name of electrode
1	Second triode plate
2	Second triode grid
3	Second triode cathode
4, 5	Heater
6	First triode plate
7	First triode grid
8	First triode cathode
9	Free

Electrical parameters

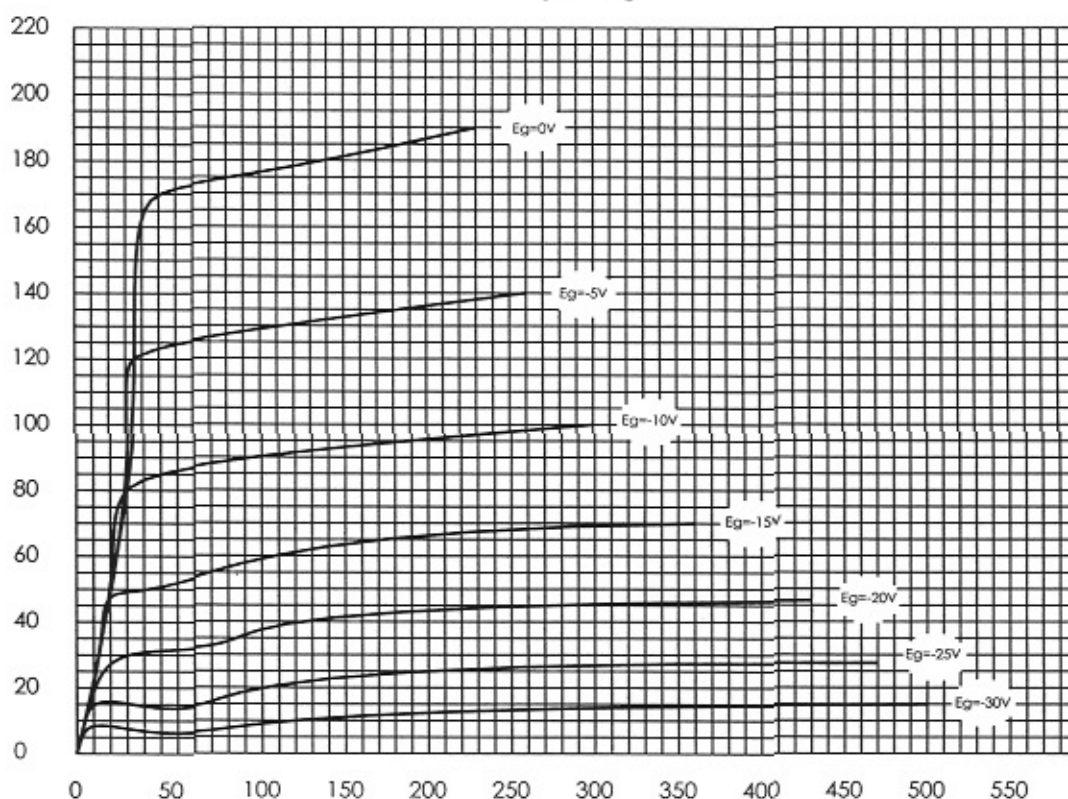
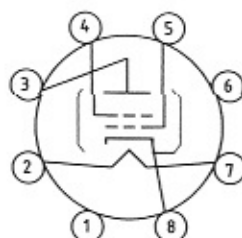
Parameters, conditions and units	Nominal	
	min	max
Heater current, mA	550	680
Grid reverse current, μA , (at: filament voltage 6.3 V, plate voltage 250 V, grid voltage minus 8.0 V, resistance in grid circuit 1.0 M Ω)	—	0.2
Plate current, mA, (at: filament voltage 6.3 V, plate voltage 250 V, grid voltage minus 8.0 V)	7	14
First and second triodes plate current difference, % (at: filament voltage 6.3 V, plate voltage 250 V, grid voltage minus 8.0 V)	—	± 30
Plate current at the beginning of the characteristic, μA (at: filament voltage 6.3 V, plate voltage 250 V, grid voltage minus 18 V)		50
Slope of characteristic, mA/V (at: filament voltage 6.3 V, plate voltage 250 V, grid voltage minus 8.0 V)	2.0	3.8
Amplification factor (at: filament voltage 6.3 V, plate voltage 250 V, grid voltage minus 8.0 V)	16.5	—
Cathode - heater insulation resistance, M Ω (at: filament voltage 6.3 V, cathode -heater voltage ± 200 V)	13.3	—

Limiting Values

Parameters, units	Nominal	
	min	max
Filament voltage, V	6	6.6
Plate voltage, V	—	330
Cathode - heater voltage, V	—	± 200
Cathode current, mA	—	20
Power dissipation at the plate of each triode, W	—	4.0
Grid circuit resistance for each of the triodes, M Ω fixed bias	—	1.0
self - bias	—	2.0



Pin #	description
1	N/A
2, 7	heater
3	plate
4	screen
5	grid
6	N/A
8	cathode



Electrical Data

Heater Voltage, not less than	5.7 V
Heater Voltage, not more than	6.9 V
Heater Current, nominal	0.9 A
Plate Voltage, not more than	500 V
Cathode Current, not more than	80 mA
Plate Dissipation, not more than	30 W
Screen Voltage, not more than	450 V
Screen Dissipation, not more than	5 watts
Maximum grid circuit resistance	
fixed bias, not more than	100 Kohms
self bias, not more than	0.5 Mohms
Inter-electrode Capacitances:	
C, grid to plate	0.6 pF
C, grid to cathode, heater, screen and suppressor	10 pF
C, plate to cathode, heater, screen and suppressor	6.4 pF
Heater to Cathode Voltage:	+/- 200 V
Transconductance (nominal)	5.2 mA/V
Plate Resistance (nominal)	33K OHM

6L6EH

New Sensor Corp.

tested by jcm

Drawing #
GT0014Drawn by:
jcm