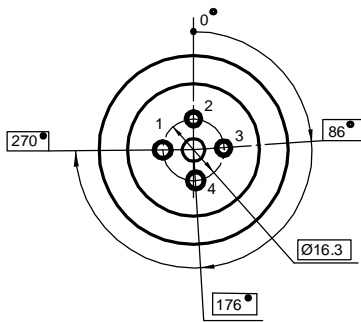
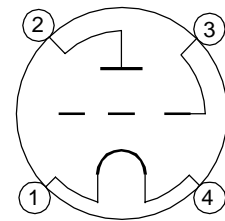


Vacuum tube 300B gold is a triode with coated filament in the glass bulb, designed to amplify low frequency power in radio engineering devices.

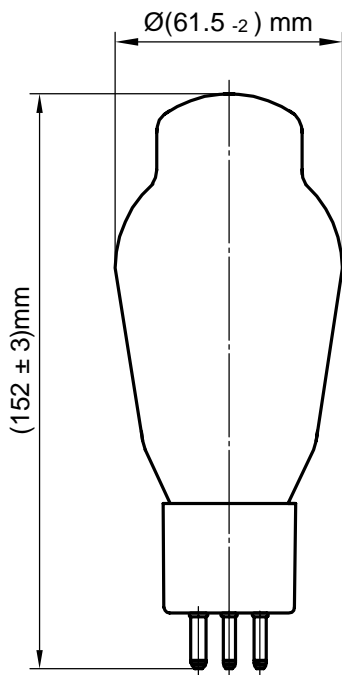
Pin arrangement



Electrode -to - lead connection diagram



Dimensions



Lead designation	Name of electrode
1, 4	Cathode
2	Plate
3	Grid

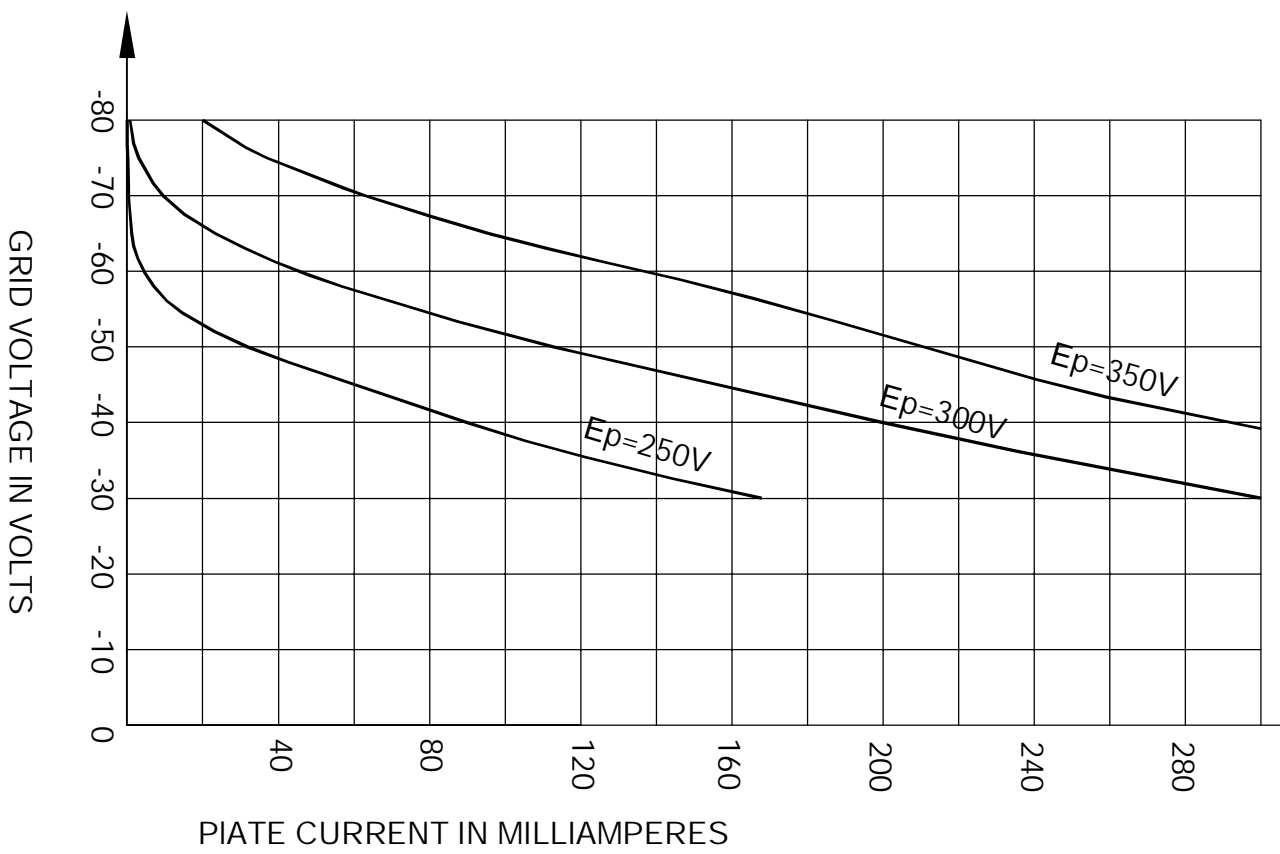
Electrical parameters

Parameters, conditions and units	Nominal	
	min	max
Heater current, A	1.1	1.4
Grid reverse current, μA , (at: filament voltage 5.0 V, plate voltage 450 V, grid voltage minus 97 V, resistance in grid circuit 0.51 M Ω)	—	1.0
Plate current, mA, (at: filament voltage 5.0 V, plate voltage 303 V, grid voltage minus 58 V)	50	85
Slope of characteristic, mA/V (at: filament voltage 5.0 V, plate voltage 303 V, grid voltage minus 58 V)	4.5	—
Amplification factor (at: filament voltage 5.0 V, plate voltage 303 V, grid voltage minus 58 V)	3.0	—
Distortion factor, % (at: filament voltage 5.0 V, plate voltage 303 V, grid voltage minus 58 V, plate circuit resistance 2.4 k, grid alternating voltage, efficacious 41 V)	—	10
Output power, W (at: filament voltage 5.0 V, plate voltage 303 V, grid voltage minus 58 V, plate circuit resistance 2.4 k Ω , grid alternating voltage, efficacious 41 V)	5.5	—
Grid blanking voltage, V (at: filament voltage 6.3 V, plate voltage 303 V)	—	120

Limiting Values

Parameters, units	Nominal	
	min	max
Filament voltage, V	4.5	5.5
Plate voltage, V	—	450
Cathode current, mA	—	100
Power dissipation at the plate of each triode, W	—	40
Grid voltage, negative, V	—	220
Grid circuit resistance ,M Ω fixed bias	—	0.51
self - bias	—	1.0
Temperature at the most heated part of the envelope, K°	—	473

$I_p = f(E_g)$
 $E_f = 6.3V$



$I_p = f(E_p)$
 $E_f = 6.3V$

