ELECTRO-HARMONIX

12AT7EH

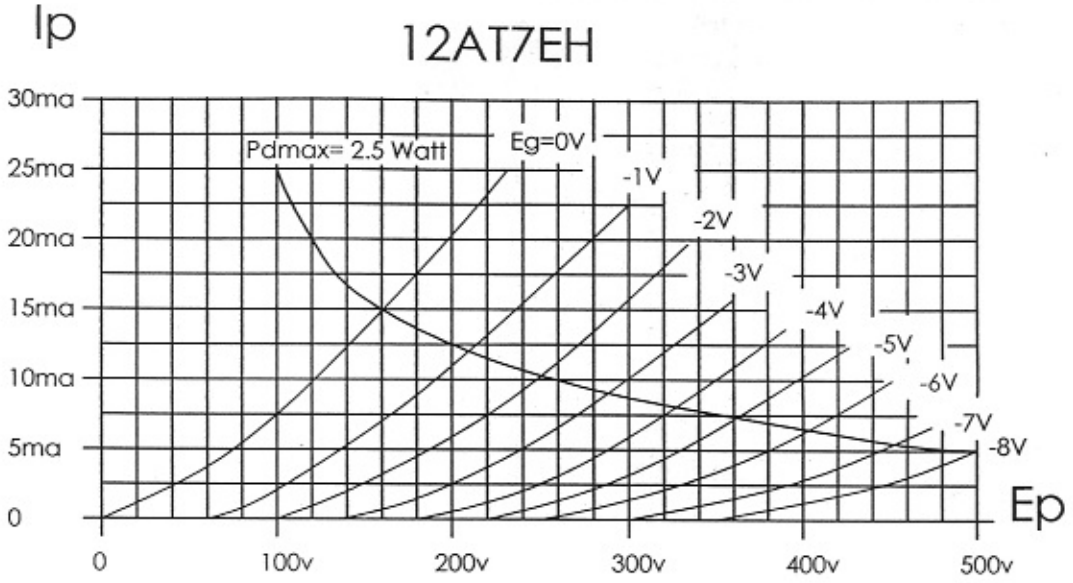
NEW SENSOR CORP.

tested by jcm

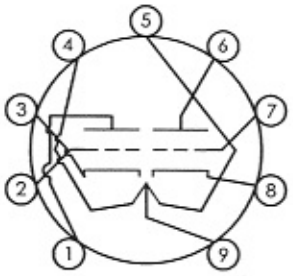
Drawing # GT005

Drawn by: jcm

12AT7EH



The 12AT7EH is a dual high mu triode especially suited for push-pull circuits, phase-splitters, and reverb tank drivers. Ideal for replacement use in any existing 12AT7 application, the large plate format and improved linearity offers new designs with better performance.



Pin #	description
1	plate 2
2	grid 2
3	cathode 2
4,5,9	heater
6	plate 1
7	grid 1
8	cathode 1

Electrical Data		
Heater Voltage, not less than		6.0 or 12.0 V
Heater Voltage, not more than		6.6 or 13.2 V
Plate Voltage, not more than		300 V
Heater to Cathode Voltage:		
positive, V not more than		100 V
negative, V not less than		200 V
Plate Current, not more than		9 mA
Plate Dissipation, each triode, not more than		1.0 watts
Maximum grid circuit resitance:		
fixed bias, not more than		1 Mohm
self bias, not more than		2.2 Mohm
Inter-electrode Capacitances:		
C, grid to plate		2.2 pF
C, grid to cathode and heater		1.6 pF
C, plate to cathode and heater		0.5 pF
C, cathode to heater		5.0 nF (nominal)
C, plate to plate		600
Amplification Factor (nominal)		60
Transconductance (nominal)		5.5 mA/V
Plate Resistance (nominal)		10.9 K OHM
Max Neg. Grid Voltage		50 V
Max Pos. Grid Voltage		0 V
Measured Electrical minima:		
Grid reverse current, not more than	(see note below)	0.2 uA
Plate current, not less than	(see note below)	12 mA
Plate current (Eb= 250V, Ec= -7V)		10 uA
Transconductance, not less than	(see note below)	5.2 mA/V
Amplification Factor, not less than	(see note below)	52

NOTE: heater V, 12.6vac; plate V, 250v; grid bias, -2v; grid circuit resistance, 1K ohm