

# Groove Tubes

## SPECIFICATION SHEET

March 1999

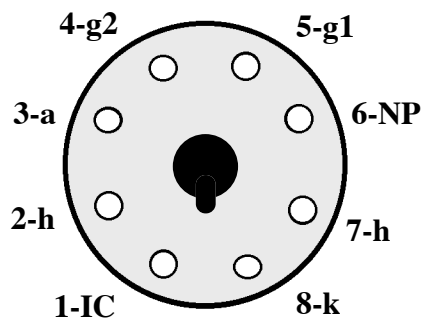
# GTE34Ls

## PENTODE

6.3V INDIRECTLY HEATED

**Description:** An exclusive Groove Tubes version of the classic EL34 pentode. Has improved power output capacity achieved by a modified grid design and by addition of special heat sinking wings on the plate structure. Highly recommended for all EL34 amps and should deliver tight bass response, more dynamic range, and 10% to 15% more power. Also available in Red and Blue glass for a slight extra charge.

### BASE CONNECTIONS



### MAXIMUM RATINGS

	Design	Absolute
$V_a$	500V	800V
$V_{g2}$	425V	425V
$-V_{g1}$	200V	200V
$I_k$	150mA	200mA
$P_a$	22W	25W
$P_{g2}$	6W	8W
$*P_{a+g2}$	25W	28W
$V_{h-k}$	150v	150v
$T_{bulb}$	250 deg.C	250 deg.C

## TYPICAL OPERATION CHARACTERISTICS

### Ultra-linear Connections

#### Push-Pull 40% Taps.

#### Class AB1 Cathode Bias

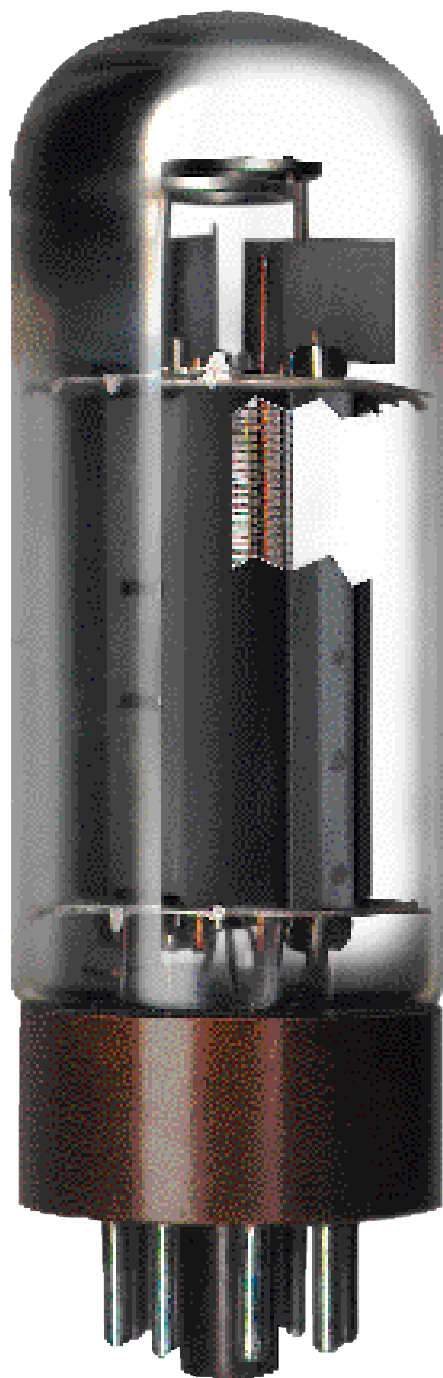
$V_{a(b)}$	450V
$V_{g2(0)}$	450V
$V_{g2}$ (max sig.)	340V
$I_{a+g2(0)}$	2 x 60 mA
$I_{a+g2}$ (max sig.)	2 x 72 mA
$P_{a+g2(0)}$	2 x 22W
$P_{a+g2}$ (max sig.)	2 x 15 W
* $R_k$	2 x 240 ohms
$-V_g$ (Approx)	38V
$P_{out}$	40W
$R_L$	9k ohms
$Z_{out}$	6.5k ohms
$D_{tot}$	5%

\* It is essential to use two separate cathode bias resistors.

### Typical AB1 amp Idle Current ranges from:

**35mA - 45mA**  
@ 450-550vdc on  $V_a$  (plate)

**45mA - 55 mA**  
@ 390-450vdc on  $V_a$ . (plate)



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