

Groove Tubes

SPECIFICATION SHEET

January 2001

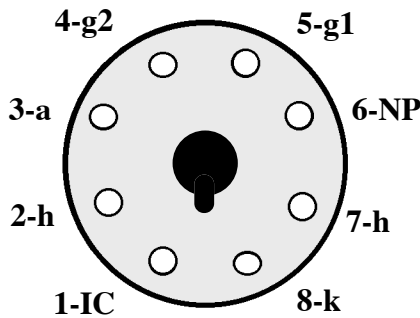
GTKT66-HP

BEAM TETRODE

6.3V INDIRECTLY HEATED

Description: A beam tetrode with a maximum anode dissipation of 30 watts. Designed for the use in the output stage of all types of audio amplifiers. Recommended for replacement for all 6L6 or 5881 type amplifiers for superior fidelity and improved power output performance. Especially applicable for Fender type amps and early Marshall JTM45 series amps originally designed for KT66/5881 tube types.

BASE CONNECTIONS



MAXIMUM RATINGS

	Design	Absolute
V_a	500v	550v
V_{g2}	500v	550v
$-V_{g1}$	200v	200v
I_k	200v	200mA
P_a	22w	30w
P_{g2}	3-5w	4-5w
$*P_{a+g2}$	7w	32w
V_{h-k}	150v	150v
T_{bulb}	250c	250c

TYPICAL OPERATION CHARACTERISTICS

Ultra-linear Connections Push-Pull 40% Taps. Class AB1 Cathode Bias

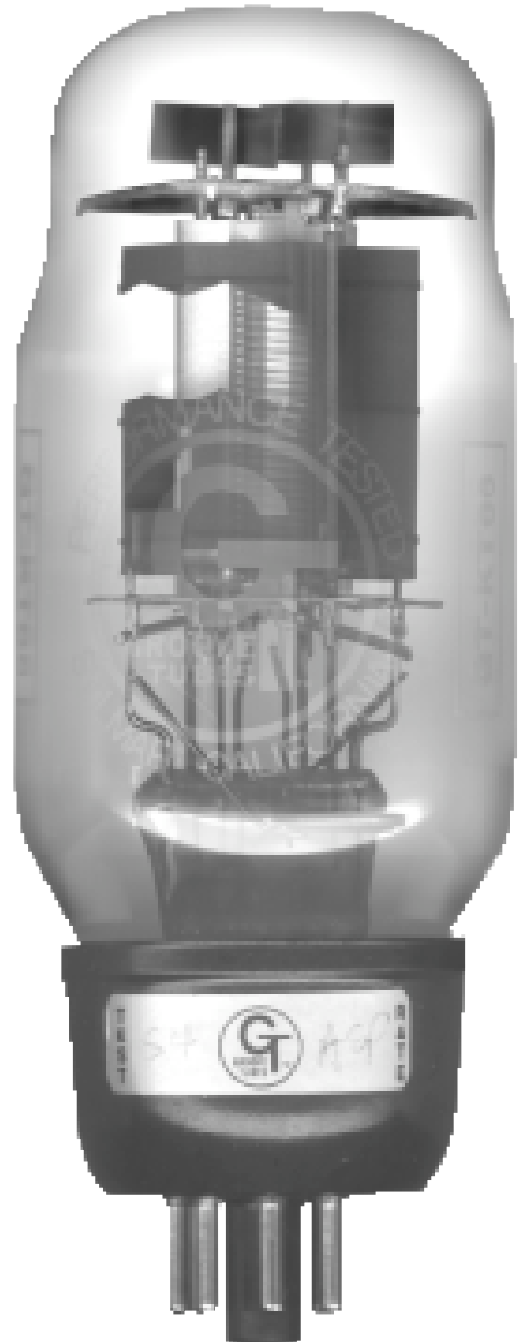
$V_{a(b)}$	450v
$V_{g2(0)}$	425v
$V_{g2(max sig.)}$	400v
$I_{a+g2(0)}$	2 x 62.5 mA
$I_{a+g2(max sig.)}$	2 x 72.5 mA
$P_{a+g2(0)}$	2x 26.5w
$P_{a+g2(max sig.)}$	2x 13.0w
* R_k	2x 560 ohms
$-V_g$ (Approx)	35v
P_{out}	32w
R_L	7k ohms
z_{out}	9k ohms
D_{tot}	2%
IM	4%

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

Ultra-linear Connections Push-Pull 40% Taps. Class AB1 Fixed Bias

$V_{ag2(0)}$	525v
$V_{ag2(max sig.)}$	500v
$I_{a+g2(0)}$	2 x 35mA
$I_{a+g2(max sig.)}$	2 x 80 mA
$P_{a+g2(0)}$	2x 18w
$P_{a+g2(max sig.)}$	2x 15w
* $-V_{g1}$ (approx)	67v
$R_1(a-a)$	8k ohms
$V_{in(g1-g1)(pk)}$	127v
P_{out}	50w
D_{tot}	3%
IM	15%
z_{out}	12k ohms

* A negative bias range of +/-25% should be available for each tube.



Typical AB1 amp Idle Current ranges from:
35mA-45mA @ 450-550vdc on V_a (plate)
45mA-55mA @ 390-450vdc on V_a . (plate)



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