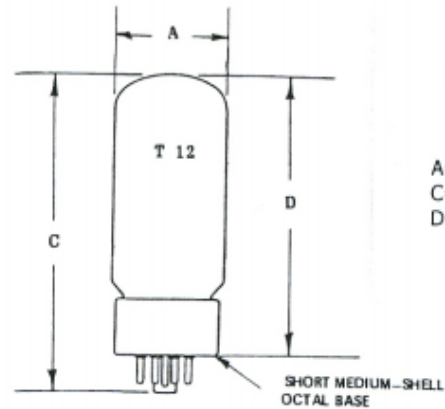
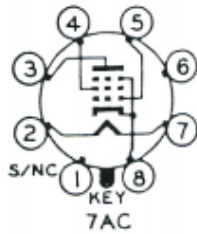


# TUNG-SOL 6L6GC-STR

The 6L6GC-STR is a beam-power tetrode primarily designed for use in audio-frequency power amplifier applications. The 6L6GC-STR has ruggedized construction making it especially suitable for use in musical instrument amplifiers.



A = 1 3/8 in.  
C = 3 3/4 in.  
D = 3 1/4 in.

## General Characteristics

	min	typ	max	
Heater Voltage (AC or DC)	5.7	6.3	6.9	V
Heater Current @ 6.3V		0.9		A
Cathode:		oxide-coated, unipotential		
Cathode-to-heater potential		±200		V
Direct interelectrode capacitances :				
Grid no. 1 to plate			0.6	pF
Grid no. 1 to cathode, heater, grid no. 2, and beam forming plates			10	pF
Plate to cathode, heater, grid no. 2, and beam forming plates			6.5	pF

## Mechanical

Operating position	Any		
Base	Large wafer octal 8-pin		
Basing diagram	JEDEC 7AC		
Cooling	Radiation and convection		
Envelope temperature (max)	250 C		
Nominal dimensions:			
Diameter	38.8mm (1.528 in.)		
Base to top	93mm (3.665 in.)		
Overall height	108mm (4.252 in.)		
Diameter of base	34mm (1.339 in.)		
Net weight	65 grams		

## Maximum ratings

DC plate voltage $V_P$	500	V
Screen grid voltage $V_{g2}$	500	V
Plate Dissipation	30	W
Screen Grid Dissipation	5	W

## Typical Operation, Class A, Audio Power Amplifier, Single Tube Connection

	tetrode	triode	
DC plate voltage	350	250	V
Screen grid voltage	250		V
Control grid bias voltage	-18	-20	V
Peak AF grid voltage	18	20	V
Zero-signal plate current	54	40	mA
Maximum-signal plate current	66	44	mA
Zero-signal screen grid current	2.5		mA
Maximum-signal screen current	7		mA
Plate resistance (approx)	33000	1700	ohms
Transconductance (approx)	5200	4700	$\mu$ S
Load Resistance	4200	5000	ohms
Total harmonic distortion	15	5	%
Maximum signal power output	10.8	1.4	W

## Typical Operation, Class AB<sub>1</sub>, Audio Power Amplifier (Values for two tubes)

DC plate voltage	450	V
Screen grid voltage	400	V
Control grid bias voltage	-37	V
Peak AF grid-to-grid voltage	70	V
Zero-signal plate current	116	mA
Maximum-signal plate current	210	mA
Zero-signal screen grid current	5.6	mA
Maximum-signal screen current	22	mA
Load Resistance, plate-to-plate	5600	ohms
Total harmonic distortion	1.8	%
Maximum signal power output	55	W