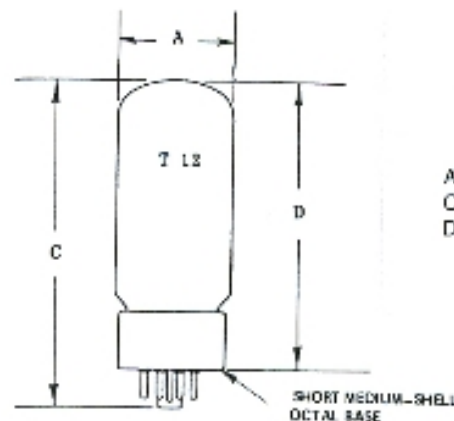


TUNG-SOL 6L6GC-STR

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 interscreen 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 water octal 8-pin			
Base diagram	JEDEC 7AC			
Cooling	Radiation and convection			
Envelope temperature (max)	250 C			
Nominal dimensions				
Diameter	32.8mm (1.529 in.)			
Base to top	93mm (3.505 in.)			
Overall height	105mm (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	55	44	mA
Zero-signal screen grid current	2.5		mA
Maximum-signal screen current	7		mA
Plate resistance (approx)	3000	1700	ohms
Transconductance (approx)	5200	4700	μS
Load Resistance	4200	5000	ohms
Total harmonic distortion	15	5	%
Maximum signal power output	10.8	1.4	W

Typical Operation, Class AB₁, 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	20	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	5000	ohms
Total harmonic distortion	1.8	%
Maximum signal power output	55	W