



SVETLANA EL34/6CA7

HIGH PERFORMANCE AUDIO POWER PENTODE

Power pentode, octal base. Reliable version of classic British-made Mullard EL34. Graphite coated screen grid and gold-plated control grid for ruggedness, hard glass envelope for high temperature operation--suitable for all vintage or modern EL34 amplifiers.

Electrical

Heater	Min	Nom	Max	
Voltage (AC or DC)	5.7	6.3	6.9	V
Current		1.6		A
Cathode	Oxide-coated, unipotential			
Cathode-to-heater potential, max.	100			V
Direct interelectrode capacitances, max.*				
Grid 1 to cathode and grid 3, grid 2 and heater	<16			pF
Plate to cathode and grid 3, grid 2 and heater	<0.6			pF
Grid 1 to plate	<1.1			pF

AF Power Amplifier, Maximum Ratings

DC plate voltage	800	V
Grid 2 DC (screen) voltage	500	V
Grid 1 (control) voltage	-100	V
DC cathode current	150	mA
Plate dissipation	25	W
Grid 2 DC screen dissipation	8	W
Bulb temperature (surface hottest point)	250*	C

Typical Operation, AF Power Amplifier, Class A (single tube)

DC plate voltage	250	V
Grid 2 (screen) voltage	250	V
Grid 1 (control) voltage*	-14	V
Peak AF grid 1 (control) voltage	14	V
Zero signal plate current	100	mA
Maximum signal plate current	105	mA
Zero signal grid 2 (screen) current (average)	15	mA
Transconductance (nominal)	12,000	μ S
Effective load resistance	2000	Ω
Power output at 5% distortion	10	W

*Approximate Value (set to zero signal plate current)

