

SVETLANA TECHNICAL DATA KT88

High Performance Audio Beam Power Tetrode

he Svetlana™ KT88 is a glass envelope beam power tetrode. It is intended for audio frequency power amplification service. High plate dissipation rating, close manufacturing specification tolerances and thorough processing provides improved reliability and superior sonic performance.

The Svetlana KT88 is manufactured in the Svetlana factory in St. Petersburg, Russia, and is designed to be a direct replacement for any KT88, KT90, KT99 or 6550.

The new KT88 features greatly enhanced sonic performance: Increased peak cathode emission from new cathode materials; Stable operation from extended processing and aging; Gold-plated grid; New tri-plate anode; Single-piece beam forming electrode; Precise grid/screen alignment; Improved vacuum processing; comprehensive static and audio amplifier testing before and after aging.

Characteristics

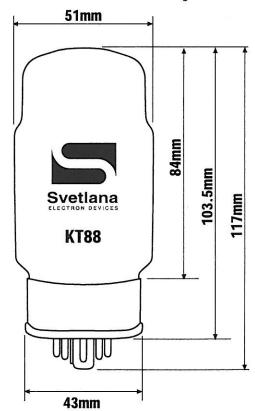
lectrical	

FIECTLICAL				
Heater:	Min.	Nom.	Мах.	
Voltage (AC or DC)	5.7	6.3	6.9	V
Current		1.6		A
Cathode:		Oxide-	coated, unipote	ential
Cathode-to-heater potential, ma	3 <i>X</i> .		-250*/250**	V
Direct interelectrode capacitano	ces***			
Grid no.1 to cathode and grid	no.3, grid n	0.2,		
base sleeve and heater			16.0	рF
Plate to cathode and grid no.	3, grid no.2,			
base sleeve and heater			12.0	pF
Grid no.1 to plate			1.2	pF
Mechanical				
Operating Position				Any
Base	Large wafe	er octal 8-pi	in with metal sl	eeve
Nominal dimensions:				
Height			117 mm (4.6	1 in.)
Seated height			103.5 mm (4.0	8 in.)
Diameter			51 mm (2.	0 in.)
Cooling			Convection co	oled
Envelope Temperature (max)			2	50°C
Approximate net weight			90 g (3.0) oz.)
*Max with heater negative to cathol	de **Max v	ith heater po	sitive to cathode	<u>-</u>
***Without external shielding				
without external shielding				

AF Power Amplifier

Maximum ratings		
DC plate voltage	800	V
Grid no.2 DC (screen) voltage	600	V
Grid no.1 (control) voltage	-300	V
DC cathode current	230	mA
Plate dissipation	42	W
Grid no.2 (screen) dissipation	8	W

Svetlana Outline drawing



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Typical Operation Class A, (single tube)		
DC plate voltage	400	V
Grid no.2 DC (screen) voltage	225	V
Grid no.1 DC (control) voltage	-16.5	V
Peak AF grid no.1 (control) voltage	16.5	V
Zero-signal plate current	87	mΑ
Max signal plate current	105	mA
Zero signal grid no.2 (screen) current	4	mAdc
Max signal grid no.2 (screen) current	18	mA
Transconductance	11.5	mA/Volt
Signal output	19	W

