



## **KT88 BEAM POWER TETRODE**

The Svetlana™ KT88 is a beam power tetrode having a large standard octal base and glass envelope. With a gold-plated molybdenum alloy grid and carbon-coated screen grid, the Svetlana KT88 is the finest power tube of its type being manufactured today. Its exclusive screen-grid radiator fins reduce a major source of failure in audio amplifiers, especially when operated in ultralinear or triode connection. All ratings of the Svetlana KT88 meet or exceed those of the original version; top-quality cathode materials and extensive aging yield outstanding performance in high-fidelity amplifiers. The Svetlana KT88 is made exclusively at the Svetlana Electron Devices factory in St. Petersburg, Russia, and is marketed worldwide by PM Components Ltd. and in the USA by PM of America Inc.



### TYPICAL MECHANICAL AND ELECTRICAL PARAMETERS

Exact replacement for:	6550, 6550A, KT88, KT90, KT99, KT100
Heater:	6.3v AC or DC, 1.65 amps
Cathode:	oxide-coated high-purity nickel sleeve
Capacitances:	
control grid to anode	1.4 pF
control grid to cathode	16.5 pF
Mounting and basing	large octal, metal ring conn. to pin 1, device operable in any position
Height	120 mm (4.7 in)
Diameter	52 mm (2.0 in)
Mass	95 g (3.4 oz)

HEADQUARTERS:  
1687 Shelby Oaks Drive  
Suite 8  
Memphis, TN 38134  
Phone: 901-388-2424  
Fax: 901-388-2405

CERAMIC TUBE DIVISION:  
895 B. Street PMB #481  
Hayward, CA 94541  
Phone / Fax: 510-885-1247



## ABSOLUTE MAXIMUM RATINGS

Cathode-heater maximum DC voltage	+250v
Allowable spot temperature on envel.	250 degrees C
Plate voltage, DC (at idle)	820 v
Plate voltage, DC, in triode connection	610 v
Screen voltage, DC, at idle	610 v
Control grid voltage, DC, at idle	-350 v
Cathode current, DC, at idle	235 mA
Plate dissipation, peak or idle	44 watts
Screen grid dissipation, peak or idle	10 watts
Control grid resistance, fixed bias	220k ohms

## TYPICAL OPERATION

Push-pull class AB1 tetrode connection, cathode bias	
Plate voltage	560v DC
Screen voltage	300v DC
Plate current, idle	120 mA
Plate current, full power	150 mA
Cathode bias resistor, common	350 ohms 25w
Load resistance, plate-to-plate	9000 ohms
Output power	50 watts
Total harmonic distortion at 50w output	3%

Push-pull class AB1 tetrode connection, fixed bias	
Plate voltage	560v DC
Screen voltage	300v DC
Plate current, idle	120 mA
Plate current, full power	290 mA
Grid bias	-45 v DC
Load resistance, plate-to-plate	4500 ohms
Output power	100 watts
Total harmonic distortion at 100w out	2.5%

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Push-pull class AB1 ultralinear connection, cathode bias

Plate voltage	500v DC
Screen taps	40%
Plate plus screen current, idle	180 mA
Plate plus screen current, full power	200 mA
Cathode bias resistor, common	400 ohms 25w
Load resistance, plate-to-plate	6000 ohms
Output power	50 watts
Total harmonic distortion at 50w out	1.5%

Push-pull class AB1 triode connection, fixed bias

Plate and screen voltage	480v DC
Plate plus screen current, idle	120 mA
Plate plus screen current, full power	150 mA
Grid bias	-65 v DC
Load resistance, plate-to-plate	4000 ohms
Output power	30 watts
Total harmonic distortion at 30w out	1.5%

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