Svetlana 4CX15,000R Radial Beam Power Tetrode

9.0

36.5

26.7

kW

kW

Radio Frequency Power Amplifier Class C FM

Absolute Maximum Ratings:					
DC plate voltage		10,000	V		
DC screen voltage		2,000	V		
DC grid voltage		-750	V		
DC plate current		5.0	Α		
Plate dissipation		15	kW		
Screen dissipation		450	W		
Grid dissipation		200	W		
Typical Operation (Frequencies to 110 MHz)					
DC plate voltage	7.5	10.0	kVdc		
DC screen voltage	750	750	Vdc		
DC grid voltage	-510	-300	Vdc		
DC plate current	4.65	4.55	Adc		
DC screen current	590	540	mA		
DC grid current	300	270	mA		
Driving Power	220	220	W		

Minimum Cooling Air-Flow Requirements				
Sea Level				
Plate Dissipation	Air Flow	Pressure Drop		
Watts	CFM	Inches of Water		
7,500	230	0.7		
12,500	490	2.7		
15,000	645	4.6		

Note:

Plate dissipation

Plate output power

At altitudes significantly above sea level, the flow rate must be increased for equivalent cooling. At 5,000 feet above sea level, both the flow rate and the pressure drop should be increased by a factor of 1.20, while at 10,000 feet both flow rate and pressure drop must be increased by 1.46.



SVETLANA TECHNICAL DATA



4CX15,000R **Radial Beam Power Tetrode**

he Svetlana[™] 4CX15,000R is an air cooled power tetrode designed for audio and radio frequency applications. It is particularly well-suited for use in VHF FM broadcast transmitters in the Band II 88-108 MHz frequency range and has full performance ratings to 110MHz. The Svetlana 4CX15,000R has a directlyheated, superior engineered thoriated tungsten mesh filament for mechanical ruggedness and good VHF electrical performance. This modern mesh filament design is superior to other mesh filament designs.

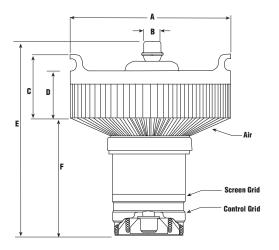
The Svetlana 4CX15,000R is manufactured in the Svetlana factory in St. Petersburg, Russia, and is designed to be a direct replacement for any 4CX15,000R.

Characteristics

Thoriated-tungsten 6.3 ± 0.3 164	V
164	V A
-	Α
4.5	
4.5	
4.5	
158	рF
25.8	рF
1.3	рF
67	рF
25.6	рF
0.21	рF
110	MHz
	158 25.8 1.3 67 25.6 0.21

Base	Coaxial, design for use with Svetla	ana SK300A socket
Cooling		Forced air
Maximum operating temperature	e, ceramic/metal seals or envelope	250° C
Operating position	Axis vertica	al, base up or down
Net weight		5.8 kg (12.8 lb.)
Diameter		19.3 cm (7.58 in.)
Length		23.8 cm (9.38 in)
Maximum overall dimensions:		

Svetlana Outline drawing



Di	Dimensional Data							
	Millimeters		Inches					
	Min.	Max.	Min.	Max.				
Α	189	193	7.46	7.58				
В	21.7	22.7	0.855	0.895				
С	90.4	93.6	3.56	3.68				
D	61.3	70.8	2.41	2.79				
E	22.8	23.8	9.0	9.38				
F	118	122	4.66	4.78				



ELECTRON DEVICES

Headquarters:

8200 South Memorial Parkway Huntsville, AL 35802 USA

Phone: 205 882 1344

Fax: 205 880 8077 Marketing & Engineering:

3000 Alpine Road Portola Valley, CA 94028

USA Phone:

415 233 0429 Fax: 415 233 0439

www.svetlana.com

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