

SVETLANA TECHNICAL DATA

812A

Medium-Mu Power Triode



The Svetlana™ 812A is a high perveance, easy to drive medium-mu triode closely modeled after the original RCA design. Improvements include a low loss easy to clean ceramic base and a ceramic thermal insulator under the plate cap. The Svetlana 812A may be used as an AF power amplifier, modulator or RF amplifier at full ratings to 30MHz and reduced ratings to 100MHz.

The Svetlana 812A is designed to be a direct replacement for any 812A now in service.

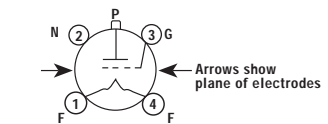
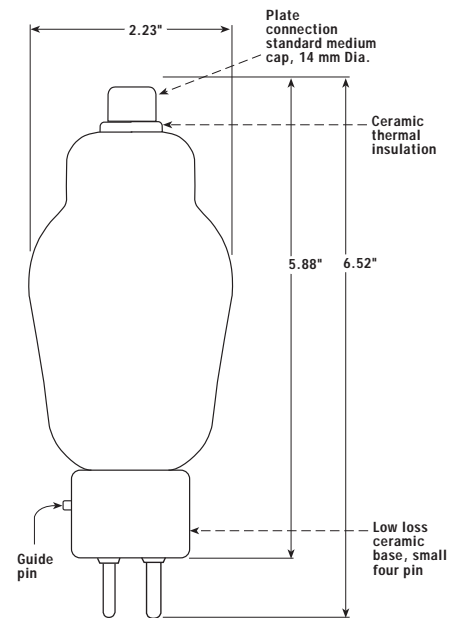
Characteristics

Electrical			
Filament:	Thoriated-tungsten		
Voltage (AC or DC)	6.3 ± 0.3	V	
Current	4	A	
Amplification factor (average)	29		
Maximum frequency for full ratings	30 MHz		
Interelectrode capacitances:			
Grid to filament	5.4	pF	
Plate to filament	0.77	pF	
Grid to plate	5.5	pF	
Mechanical			
Cooling	Convection		
Base	Ceramic standard 4 pin		
Socket	Svetlana SK4A		
Plate connector	PC1A or equivalent		
Operating position-	Vertical or Horizontal (pins 1 & 4 in vertical plane)		
Maximum dimensions:			
Diameter	57 mm (2.23 in.)		
Length	166 mm (6.52 in)		
Net weight (average)	113 gm (4 oz)		
Maximum ratings		CCS**	ICAS***
DC plate voltage	1250	1500	V
Maximum-signal DC plate current	175	175	mA
Plate Dissipation	45	65	W
Grid Dissipation	7	7	W
DC grid voltage	-200	-200	V

** Continuous commercial service

*** Intermittent commercial and amateur service

Svetlana Outline drawing



Frequency (MHz)	Plate Voltage and plate input
60	89%
80	70%
100	55%

At maximum CCS ratings, the plate shows no color. At ICAS ratings, the plate shows barely perceptible red color.



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Typical Operation, Class C (Frequencies to 30 MHz)	CCS**	ICAS***	
DC plate voltage	1250	1500	V
DC grid voltage	-90	-120	V
Peak grid voltage	200	240	V
Plate current	140	170	mA
DC grid current	30	30	mA
Grid drive power*	5.4	6.5	W
Power output *	130	190	W
Plate dissipation	45	65	W

Typical Operation, Class B values for 2 tubes (AF Power Amplifier and Modulator)

DC plate voltage	1250	1500	V
DC grid voltage	-40	-48	V
Peak grid voltage	225	270	V
Plate current	260	310	mA
Zero signal plate current	22	28	mA
Grid driving power*	3.5	5	W
Power output *	235	340	W
Effective load resistance	12,200	13,200	ohms

* approximate

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