

ELECTRONIC TUBE REFERENCE

4CPW10000R

Power - Tetrode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Svetlana rugged power tetrode using a directly heated thoriated-tungsten mesh filament, rated for high voltage and high peak current. Designed as a replacement for 4CPW10000/Y442-class power tubes.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 75 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
MAXIMUM PLATE VOLTAGE	25000 V
MAXIMUM SCREEN VOLTAGE	2000 V
MAXIMUM PLATE DISSIPATION	10000 W
MAXIMUM SCREEN DISSIPATION	250 W
MAXIMUM GRID DISSIPATION	75 W
Maximum ratings promoted from source.	

The Svetlana 4CPW10,000R has a directly-heated thoriated tungsten mesh filament for mechanical ruggedness. This modern mesh filament design is superior to the old hairpin design of the 1950's. The high voltage standoff of the Svetlana 4CPW10,000R is 25 KVDC and the peak current rating is 24 amperes. The Svetlana 4CPW10,000R is manufactured in the Svetlana factory in St. Petersburg, Russia, and is designed to be a direct replacement for the 4CPW10,000 or Y442 manufactured in the United States, England and elsewhere.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

199X Svetlana

Published test conditions and operating points. Values on this page are preserved as reported by this source.

199X SVETLANA

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	7.5 V	Nominal
HeaterCurrentNominal	75 A	Nominal
Maximum Plate Voltage	25000 V	—
Maximum Screen Voltage	2000 V	—
Maximum Plate Dissipation	10000 W	—
Maximum Screen Dissipation	250 W	—

TUBE TINKER

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