



ELECTRONIC TUBE REFERENCE

4CX800A

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

Svetlana 800 W transmitting tetrode for high-gain grid-driven or grounded-grid RF linear-amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 3.6 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
MAXIMUM PLATE VOLTAGE	2500 V
MAXIMUM SCREEN VOLTAGE	350 V
MAXIMUM PLATE DISSIPATION	800 W
MAXIMUM SCREEN DISSIPATION	15 W
<i>Maximum ratings promoted from source.</i>	

The Svetlana 4CX800A is a high-performance ceramic metal tetrode with a plate dissipation rating of 800 watts with forced air cooling. The performance characteristics of the 4CX800A allow its use as a high gain grid-driven RF amplifier or in grounded grid service. A recommended mode of operation is in grid-driven service with a passive (resistive) 50 ohm untuned input circuit. This eliminates the need for multiple input tuned circuits and neutralization. In this mode, an exceptionally simple, stable, low-cost amplifier with good intermodulation performance can be designed. As a linear power amplifier, the 4CX800A will conservatively produce 750 watts PEP SSB, and 750 watts Key Down CW in any of the three modes: grid-driven, grid-driven passive input, and cathode-driven. Because of the high performance



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	12.6 V	Nominal
HeaterCurrentNominal	3.6 A	Nominal
Maximum Plate Voltage	2500 V	—
Maximum Screen Voltage	350 V	—
Maximum Plate Dissipation	800 W	—
Maximum Screen Dissipation	15 W	—

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