



ELECTRONIC TUBE REFERENCE

4CX5000R8170W

Power - Beam (NOT sweep) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Military-ruggedized Svetlana radial-beam tetrode for high-power audio and RF applications, using a mesh filament specifically designed to withstand severe shock and vibration.

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 Beam Power	
MAXIMUM PLATE VOLTAGE	7500 V
MAXIMUM SCREEN VOLTAGE	1500 V
MAXIMUM PLATE DISSIPATION	5000 W
MAXIMUM SCREEN DISSIPATION	250 W
MAXIMUM GRID DISSIPATION	75 W
Maximum ratings promoted from source.	

The Svetlana™ 4CX5000R/8170W is designed for audio and radio frequency applications. The Svetlana 4CX5000R/ 8170W has a directly-heated thoriated tungsten mesh filament for mechanical ruggedness to withstand the shock and vibration encountered in military applications. The Svetlana 4CX5000R/8170W is manufactured in the Svetlana factory in St. Petersburg, Russia, and is designed to be a direct replacement for the 4CX5000R/8170W manufactured in the United States. SM



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 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	7.5 V	Nominal
HeaterCurrentNominal	75 A	Nominal
Maximum Plate Voltage	7500 V	—
Maximum Screen Voltage	1500 V	—
Maximum Plate Dissipation	5000 W	—
Maximum Screen Dissipation	250 W	—

TUBE TINKER

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and their source documents.

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