



ELECTRONIC TUBE REFERENCE

4CX250R

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Ruggedized radial-beam power tetrode designed for RF power applications in equipment exposed to severe shock and vibration.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6 V / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM SCREEN VOLTAGE	500 V
MAXIMUM PLATE DISSIPATION	250 W
MAXIMUM SCREEN DISSIPATION	12 W
MAXIMUM GRID DISSIPATION	2 W
<i>Promoted fields populated from published ratings/characteristics; additional published values retained in TUBE_SECTION_PARAMETER.</i>	

Ruggedized 4CX250R/7580W radial-beam power tetrode for shock/vibration environments.

SOURCE OPERATING CONDITIONS

1962 Eimac

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

1962 EIMAC

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current	2.3 A–2.9 A	—
Heating Time	30–60 s	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode-Heater Potential Maximum	4150 V	—
Frequency for Maximum Ratings	500 MHz	—
Maximum DC Plate Current	250 mA	—
Typical SSB Peak Envelope Power	470 W	ClassAB1;SingleSideband
Typical AF Push-Pull Output Power	595 W	ClassAB1;PushPull;TwoTubes

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	16–18.5 pF	—
Output Capacitance	4.2–5.2 pF	—
Grid-Plate Capacitance Maximum	0.06 pF	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker