ELECTRONIC TUBE REFERENCE

4CX125C

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

High-power ceramic/metal transmitting tetrode designed for RF power amplification, linear amplification, oscillation, modulation, broadcast, or related high-power service.

General characteristics

BASE DESIGNATION	—	**BASE PINS**	—
NOMINAL HEATER	6 V / 2.6 A	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Tetrode

TRANSCONDUCTANCE	0.012 S
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM SCREEN VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	125 W
MAXIMUM SCREEN DISSIPATION	12 W
MAXIMUM GRID DISSIPATION	2 W

Published absolute maximum ratings promoted from the applicable service tables; pulse-service maxima are used only where explicitly noted in the tube note.

Horizontally-finned radial-beam power tetrode based on the 4CX300A, intended for RF amplifier service with transverse forced-air cooling.

SOURCE OPERATING CONDITIONS

1962 Eimac

SOURCE PDF

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

1962 EIMAC

Section 1 · Tetrode

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Heater/Filament Voltage	**6 V**	—
Frequency for Maximum Ratings	**500 MHz**	—
Maximum Plate Voltage	**2000 V**	Highest published applicable absolute maximum
Maximum Screen Voltage	**400 V**	Highest published applicable absolute maximum
Maximum Plate Dissipation	**125 W**	—
Maximum Screen Dissipation	**12 W**	—
Maximum Grid Dissipation	**2 W**	—
Maximum DC Plate Current	**250 mA**	—
Heater Current	**2.6 A–3.1 A**	4CX125C
Cathode-to-Heater Potential	**-150–150 V**	—
Plate Voltage	**2000 V**	ClassC;RFAmplifier
Plate Output Power	**390 W**	ClassC;TelegraphyOrFMTelephony

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Transconductance	**12000 uS**	—
Heating Time	**30–60 s**	—
Grid-Screen Amplification Factor	**4–5.6**	Published range

CAPACITANCE		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Output Capacitance	**3.5–4.5 pF**	GroundedCathode
Feedback Capacitance	**—–0.06 pF**	GroundedCathode

Tube Tinker

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