

ELECTRONIC TUBE REFERENCE

4CX600A

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Compact radial-beam tetrode designed for distributed amplifiers and UHF service to approximately 1.3 GHz, with low inductance, low capacitance, and 600 W plate dissipation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6 V / 4.8 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.025 S
AMPLIFICATION FACTOR	8
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM SCREEN VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	600 W
MAXIMUM SCREEN DISSIPATION	15 W
MAXIMUM GRID DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	500 mA
Single electrical section; values mapped from printed ratings/characteristics.	

The 4CX600A is a compact radial-beam tetrode with low lead inductances and low inter- electrode capacitances, designed for use in distributed amplifiers and in UHF service up to 1300 Mc. Maximum plate dissipation is 600 watts. A feature of this tube is the integral screen-cathode by-pass capacitor. One

side of the heater is terminated in a “deck” attached to this capacitor while the other heater contact is brought out on a pin on the tube base. The control grid is brought out to four threaded pins on the base.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
The	0 a	The 4CX600A is a compact radial-beam tetrode with low lead inductances and low inter-
to	600 watts	to 1300 Mc. Maximum plate dissipation is 600 watts.
Heater Voltage - - - - - ~	6 Volts	Heater Voltage - - - - - ~ - 6.0 Volts
Current (average)	4.8 Amperes	Current (average) - - - - - 4.8 Amperes
Transconductance (I=	25000 mA	Transconductance (I= 300 mA) - - - ~ - 25,000 umhos
Input - - - - ~	42 uuf	Input - - - - ~ - - 42 uuf
Output ~ - - - - ~	10 uuf	Output ~ - - - - ~ - 10 uuf
Screen-cathode	110 uuf	Screen-cathode - - - - - 110 uuf
DC Plate Voltage	3000 Volts	DC Plate Voltage- - 3000 Max. Volts
DC Screen Voltage	400 Volts	DC Screen Voltage 400 Max. Volts
DC Grid Voltage - - - - - = - - =	150 Volts	DC Grid Voltage - - - - - = - - =150 Max. Volts
DC Plate Current	500 mA	DC Plate Current - - - - - 500 Max. mA
Plate Dissipation- - - - ~	600 Watts	Plate Dissipation- - - ~ - - 600 Max., Watts
Screen Dissipation	15 Watts	Screen Dissipation - - - - - 15 Max. Watts
Grid Dissipation =	3 Watts	Grid Dissipation = - - - - - 3 Max. Watts
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1965 Eimac Tube Manual

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1965 EIMAC TUBE MANUAL

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/Filament Voltage	6 V	—
Heater/Filament Current	4.8 A	—
Amplification Factor	8	—
Transconductance	25000 uS	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Voltage	3000 V	—
Maximum DC Screen Voltage	400 V	—
Maximum Plate/Cathode Current	500 mA	—
Maximum Plate Dissipation	600 W	—
Maximum Screen Dissipation	15 W	—
Maximum Grid Dissipation	3 W	—
Frequency for Maximum Ratings	1300 MHz	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling	Forced air	—

TUBE TINKER

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