



ELECTRONIC TUBE REFERENCE

8561

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

High-power transmitting tetrode designed for RF power amplification, linear amplification, oscillation, modulation, or frequency multiplication.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6 V / 3.4 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	300 V
MAXIMUM PLATE DISSIPATION	400 W
MAXIMUM SCREEN DISSIPATION	8 W

The EIMAC 8561/4CX300Y is a rugged ceramic external-anode power tetrode for RF amplifier or oscillator service to 110 MHz.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1964 RMA EIA

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

1964 RMA EIA

Section 1 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6 V	—
Heater Current Nominal	3.4 A	ApproximateMidrange
Amplification Factor Grid-to-Screen	4.8 ratio	Nominal
Transconductance	12000 uS	Ia=200mA
Input Capacitance	34 pF	GroundedCathode; Nominal
Output Capacitance	4.45 pF	GroundedCathode; Nominal
Feedback Capacitance Maximum	0.07 pF	GroundedCathode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Operating Frequency	110 MHz	—
Maximum Plate Voltage	2000 V	ClassC
Maximum Screen Voltage	300 V	ClassC
Maximum Plate Current	400 mA	ClassC
Maximum Plate Dissipation	400 W	—
Maximum Screen Dissipation	8 W	—
Plate Voltage	1000 V	ClassC
Screen Voltage	250 V	ClassC
Plate Current	380 mA	ClassC
Plate Output Power	240 W	ClassC

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

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