



ELECTRONIC TUBE REFERENCE

4CW10000A

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

Water-cooled ceramic-metal radial-beam power tetrode for oscillator, RF amplifier, modulator, and Class-AB audio or RF linear-amplifier service.

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

SECTION 1 Tetrode	
AMPLIFICATION FACTOR	4.5
MAXIMUM PLATE VOLTAGE	7500 V
MAXIMUM SCREEN VOLTAGE	1500 V
MAXIMUM PLATE DISSIPATION	12000 W
MAXIMUM SCREEN DISSIPATION	250 W
MAXIMUM GRID DISSIPATION	75 W
<i>Published absolute maximum ratings promoted from the applicable service tables; pulse-service maxima are used only where explicitly noted in the tube note.</i>	

Water-cooled ceramic-metal radial-beam power tetrode for oscillator, RF amplifier, modulator, and Class-AB audio/RF linear-amplifier service.

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 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/Filament Voltage	7.5 V	—
Frequency for Maximum Ratings	30 MHz	—
Maximum Plate Voltage	7500 V	Highest published applicable absolute maximum
Maximum Screen Voltage	1500 V	Highest published applicable absolute maximum
Maximum Plate Dissipation	12000 W	—
Maximum Screen Dissipation	250 W	—
Maximum Grid Dissipation	75 W	—
Maximum DC Plate Current	4 A	—
Filament Current	73 A–78 A	At 7.5 V
Plate Voltage	7500 V	ClassC;RFPowerAmplifierOrOscillator
Screen Voltage	500 V	ClassC;RFPowerAmplifierOrOscillator
Plate Output Power	16000 W	ClassC;RFPowerAmplifierOrOscillator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Screen Amplification Factor	4.5	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	108–122 pF	GroundedCathode
Output Capacitance	18–23 pF	GroundedCathode
Feedback Capacitance	—1 pF	GroundedCathode
Input Capacitance	48–58 pF	GroundedGridAndScreen

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output Capacitance	18–23 pF	GroundedGridAndScreen
Feedback Capacitance	—0.16 pF	GroundedGridAndScreen



SOURCE DATA APPENDIX

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 · Tetrode

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	10000 W	—
Maximum Screen Dissipation	250 W	—