ELECTRONIC TUBE REFERENCE

4CW25000A

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Water-cooled radial-beam power tetrode for RF and television linear amplification and pulsed-regulator switching, with full ratings through 110 MHz.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	–
NOMINAL HEATER	6.3 V / 160 A	**PARALLEL HEATER**	– / –
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Tetrode

AMPLIFICATION FACTOR	4.5
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM SCREEN VOLTAGE	3000 V
MAXIMUM PLATE DISSIPATION	25000 W
MAXIMUM SCREEN DISSIPATION	450 W
MAXIMUM GRID DISSIPATION	200 W
MAXIMUM CATHODE CURRENT	80 A

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

Ceramic/metal radial-beam power tetrode for RF and television linear-amplifier service and pulsed-regulator switching, with full ratings through 110 MHz.

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	**6.3 V**	—
Heater/Filament Current	**160 A**	At 6.3 V nominal
Frequency for Maximum Ratings	**110 MHz**	—
Maximum Plate Voltage	**20000 V**	Highest published applicable absolute maximum
Maximum Screen Voltage	**3000 V**	Highest published applicable absolute maximum
Maximum Plate Dissipation	**25000 W**	—
Maximum Screen Dissipation	**450 W**	—
Maximum Grid Dissipation	**200 W**	—
Maximum DC Plate Current	**6 A**	—
Peak Cathode Current	**80 A**	Pulse service
Pulse Plate Voltage	**20000 V**	PulseModulatorOrRegulator
Pulse Screen Voltage	**3000 V**	PulseModulatorOrRegulator
Peak Cathode Current	**80 A**	PulseModulatorOrRegulator
Peak Anode Current	**60 A**	PulseModulatorOrRegulator
Plate Voltage	**10000 V**	ClassAB;RFLinearAmplifier
Screen Voltage	**1500 V**	ClassAB;RFLinearAmplifier
Plate Output Power	**28500 W**	ClassAB;RFLinearAmplifier;HighOperatingPoint

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

CAPACITANCE		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Input Capacitance	**160 pF**	GroundedCathode
Output Capacitance	**24.5 pF**	GroundedCathode
Feedback Capacitance	**1.5 pF**	GroundedCathode
Input Capacitance	**67 pF**	GroundedGridAndScreen
Output Capacitance	**25.5 pF**	GroundedGridAndScreen
Feedback Capacitance	**0.2 pF**	GroundedGridAndScreen

Tube Tinker

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