



ELECTRONIC TUBE REFERENCE

6C21

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Power triode intended for radio-frequency amplifier and oscillator service. Manufacturer documentation emphasizes RF power operation and transmitting applications rather than ordinary receiving-tube voltage amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	8.2 V / 17 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	30
MAXIMUM PLATE VOLTAGE	35000 V
MAXIMUM PLATE DISSIPATION	300 W
MAXIMUM GRID DISSIPATION	50 W
<i>Promoted fields populated from published ratings/characteristics; additional published values retained in TUBE_SECTION_PARAMETER.</i>	

High-vacuum pulse power triode for pulse-modulator service; forced-air and radiation cooled.

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 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate Capacitance	4.3 pF	—
Input Capacitance	9.5 pF	—
Output Capacitance	0.7 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Positive Plate Voltage Maximum	35 kV	Pulse
Peak Plate Current Maximum	15 A	Pulse
Peak Positive Grid Voltage Maximum	1.6 kV	Pulse
Typical DC Plate Voltage	28 kV	PulseModulator
Typical Pulse Plate Current	15 A	PulseModulator
Typical Pulse Power Output	375 kW	PulseModulator
Duty Factor	0.002	PulseModulator