



ELECTRONIC TUBE REFERENCE

6D21

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

High-voltage directly heated pulse-modulator tetrode with a massive filament. It is designed for substantial pulsed power rather than ordinary continuous small-signal amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	7.5 V / 20 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
MAXIMUM PLATE VOLTAGE	37500 V
MAXIMUM SCREEN VOLTAGE	2500 V
MAXIMUM CATHODE CURRENT	15 A
Section 1 extracted from 6D21.pdf.	

Thoriated-tungsten pulse-modulator tetrode for high-voltage pulsed service, convection cooled.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

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

1938 RAYTHEON

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Volt ans	7.5 V	Volt ans 7.5 volts
Grid-plate (maxo.)	75 pF	Grid-plate (maxo.) 75 uuf
OOutput-plate-filament (maxe)	17 pF	OOutput-plate-filament (maxe) 17.0 uuf
Output voltage	32 kV	Output voltage 32.0 Kv
L.Ce grid bias	-1000 V	L.Ce grid bias -1000 volts
Peak positive grid drive	1800 V	Peak positive grid drive 1800 volts
Equlvaleat load resistor	1660 Ω	Equlvaleat load resistor 1660 ohms
Average Ig2 range	4 mA	Average Ig2 range 4,0 to 8.0 ma
Average Igl renge	3 mA	Average Igl renge 3.0 to 6.0 ma
Plate voltags	375 kV	Plate voltags 375 Kv
Screen voltags	2.5 kV	Screen voltags 2.5 Kv
legative control grid voltage	-1250 V	legative control grid voltage -1250 volts