



ELECTRONIC TUBE REFERENCE

RK6D22

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

High-voltage Raytheon power tetrode for RF and audio-frequency amplification, capable of approximately 1 kW output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 28.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
MAXIMUM PLATE VOLTAGE	3500 V
MAXIMUM SCREEN VOLTAGE	500 V
MAXIMUM PLATE DISSIPATION	450 W
<i>Published transmitting-tube maximum voltages/currents, power ratings and capacitances; R-F, A-F Amp..</i>	

RK6D22 is a Raytheon tetrode intended for r-f, a-f amp., with published transmitting-service maximum ratings and capacitances.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Raytheon Special Purpose Tubes

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

195X RAYTHEON SPECIAL PURPOSE TUBES

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament/heater voltage	5 V	Thoriated
Filament/heater current	28.5 A	Thoriated

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	3500 V	R-F, A-F Amp.
Maximum grid-1 voltage	-250 V	R-F, A-F Amp.
Maximum grid-2 voltage	500 V	R-F, A-F Amp.
Maximum plate current	500 mA	R-F, A-F Amp.
Maximum grid-1 current	100 mA	R-F, A-F Amp.
Maximum grid-2 current	165 mA	R-F, A-F Amp.
Maximum plate dissipation	450 W	R-F, A-F Amp.
Maximum drive power	22 W	R-F, A-F Amp.
Maximum output power	1000 W	R-F, A-F Amp.

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.5 pF	Published transmitting-tube table
Input capacitance	22 pF	Published transmitting-tube table
Output capacitance	10 pF	Published transmitting-tube table