



ELECTRONIC TUBE REFERENCE

RK837

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Raytheon RF pentode designed for oscillator-amplifier transmitting service. Published maximum ratings and capacitances establish its role as a radio-frequency power and generation tube.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	12.6 V / 700 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
MAXIMUM PLATE VOLTAGE	500 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	12 W
<i>Published transmitting-tube maximum voltages/currents, power ratings and capacitances; R-F Oscillator-Amp..</i>	

RK837 is a Raytheon r-f pentode intended for r-f oscillator-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 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament/heater voltage	12.6 V	Heater
Filament/heater current	700 mA	Heater

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	500 V	R-F Oscillator-Amp.
Maximum grid-1 voltage	-200 V	R-F Oscillator-Amp.
Maximum grid-2 voltage	200 V	R-F Oscillator-Amp.
Maximum grid-3 voltage	40 V	R-F Oscillator-Amp.
Maximum plate current	80 mA	R-F Oscillator-Amp.
Maximum grid-1 current	8 mA	R-F Oscillator-Amp.
Maximum grid-2 current	40 mA	R-F Oscillator-Amp.
Maximum plate dissipation	12 W	R-F Oscillator-Amp.
Maximum drive power	0.4 W	R-F Oscillator-Amp.
Maximum output power	22 W	R-F Oscillator-Amp.

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.2 pF	Published transmitting-tube table
Input capacitance	16 pF	Published transmitting-tube table
Output capacitance	10 pF	Published transmitting-tube table