



ELECTRONIC TUBE REFERENCE

RK829B

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Dual beam transmitting tetrode with two power sections for push-pull RF oscillator and amplifier service, capable of roughly 87 W output in compact communications transmitters.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 1.125 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
MAXIMUM PLATE VOLTAGE	750 V
MAXIMUM SCREEN VOLTAGE	225 V
MAXIMUM PLATE DISSIPATION	40 W
<i>Published transmitting-tube maximum voltages/currents, power ratings and capacitances; R-F Oscillator-Amp..</i>	

RK829B is a Raytheon dual beam tetrode 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 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament/heater voltage	12.6 V	Cathode
Filament/heater current	1.125 A	Cathode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	750 V	R-F Oscillator-Amp.
Maximum grid-1 voltage	-175 V	R-F Oscillator-Amp.
Maximum grid-2 voltage	225 V	R-F Oscillator-Amp.
Maximum plate current	240 mA	R-F Oscillator-Amp.
Maximum grid-1 current	15 mA	R-F Oscillator-Amp.
Maximum grid-2 current	30 mA	R-F Oscillator-Amp.
Maximum plate dissipation	40 W	R-F Oscillator-Amp.
Maximum drive power	0.8 W	R-F Oscillator-Amp.
Maximum output power	87 W	R-F Oscillator-Amp.

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.12 pF	Published transmitting-tube table
Input capacitance	14.5 pF	Published transmitting-tube table
Output capacitance	7 pF	Published transmitting-tube table