



ELECTRONIC TUBE REFERENCE

RK100

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Raytheon gas-filled power tetrode for low-voltage RF oscillator and amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 900 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
PLATE RESISTANCE	2500 Ω
TRANSCONDUCTANCE	0.016 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	15 W
<i>Published ratings/characteristics promoted where directly applicable; identical twin sections are compressed to one section row.</i>	

Gas-filled power-amplifier tube with auxiliary grid for low-voltage audio and RF amplifier or oscillator service.



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
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	900 mA	Nominal
Maximum Plate Voltage	150 V	—
Maximum Plate Dissipation	20 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	16000 μ S	Typical
Plate Resistance	2500 ohm	Typical



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon Amateur

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

1938 RAYTHEON AMATEUR

Section 1 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	6.3 V	Published nominal value
Heater or filament current	900 mA	Published nominal value
Transconductance	16000 μ S	Published characteristic
Amplification factor	40	Published characteristic

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	16000 μS	Published upper operating value
Amplification factor	40	Published

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	15 W	Published maximum or highest stated rating
Ionizing current	250 mA	Published maximum
Control-grid current	100 mA	Published maximum
RF oscillator power output	3.5 W	ClassC