



ELECTRONIC TUBE REFERENCE

RK51

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Directly heated thoriated-tungsten Raytheon transmitting triode for RF amplification, oscillator service, and frequency multiplication. Approximately 60 W plate dissipation and 1.5 kV capability suit moderate professional transmitting stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 3.75 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	1500 V
MAXIMUM PLATE DISSIPATION	60 W
<i>Published ratings/characteristics promoted where directly applicable; identical twin sections are compressed to one section row.</i>	

Directly heated thoriated-tungsten triode RF power amplifier, oscillator and frequency-multiplier tube.



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 · Triode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RFOutputPower	96 W	ClassC;Telephony

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	RFPower_Oscillator_FrequencyMultiplier text	—



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 · Triode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	7.5 V	Published nominal value
Heater or filament current	3.75 A	Published nominal value
Amplification factor	20	Published characteristic

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	60 W	Published maximum or highest stated rating
RF power output	96 W	ClassC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak power output	384 W	ClassC; Telephony