



ELECTRONIC TUBE REFERENCE

RK72

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Raytheon directly heated half-wave high-vacuum rectifier for specialized high-voltage supplies. Its roughly 20 kV inverse-voltage capability is paired with low output current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.5 V / 3 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	20000 V
NOMINAL OUTPUT CURRENT	30 mA
PEAK FORWARD CURRENT	150 mA
FORWARD VOLTAGE DROP	200 V
<i>Published rectifier maximum peak inverse voltage, peak plate current, DC output current and average tube drop reviewed.</i>	

RK72 is a Raytheon half wave—high vacuum rectifier with published peak-inverse-voltage, peak-current, DC-output-current and tube-drop ratings.

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 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament/heater voltage	2.5 V	HalfWave
Filament/heater current	3 A	HalfWave
Average tube voltage drop	200 V	HalfWave

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage	20000 V	HalfWave
Peak plate current per plate	150 mA	HalfWave
DC output current	30 mA	HalfWave