



## ELECTRONIC TUBE REFERENCE

## RK75

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

## 1 SECTION

CONSTRUCTION

## PENTODE

Raytheon transmitting pentode intended for RF oscillator-amplifier service. Manufacturer documentation provides transmitting maximum ratings and capacitances for radio-frequency power generation and amplification.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | 5             |
| NOMINAL HEATER      | 5.5 V / 1 A       | PARALLEL HEATER      | — / —         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                    |       |
|--------------------------------------------------------------------------------------------------------------------|-------|
| SECTION 1 Pentode                                                                                                  |       |
| MAXIMUM PLATE VOLTAGE                                                                                              | 500 V |
| MAXIMUM SCREEN VOLTAGE                                                                                             | 250 V |
| MAXIMUM PLATE DISSIPATION                                                                                          | 15 W  |
| <i>Published transmitting-tube maximum voltages/currents, power ratings and capacitances; R-F Oscillator-Amp..</i> |       |

RK75 is a Raytheon 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 | 5.5 V           | Oxide            |
| Filament/heater current | 1 A             | Oxide            |

| OTHER                     |                 |                     |
|---------------------------|-----------------|---------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE    |
| Maximum plate voltage     | 500 V           | R-F Oscillator-Amp. |
| Maximum grid-1 voltage    | -100 V          | R-F Oscillator-Amp. |
| Maximum grid-2 voltage    | 250 V           | R-F Oscillator-Amp. |
| Maximum plate current     | 60 mA           | R-F Oscillator-Amp. |
| Maximum grid-1 current    | 7 mA            | R-F Oscillator-Amp. |
| Maximum grid-2 current    | 25 mA           | R-F Oscillator-Amp. |
| Maximum plate dissipation | 15 W            | R-F Oscillator-Amp. |
| Maximum output power      | 15 W            | R-F Oscillator-Amp. |

| CAPACITANCE               |                 |                                   |
|---------------------------|-----------------|-----------------------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE                  |
| Grid-to-plate capacitance | 0.55 pF         | Published transmitting-tube table |
| Input capacitance         | 15 pF           | Published transmitting-tube table |
| Output capacitance        | 12 pF           | Published transmitting-tube table |

## TUBE TINKER

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and their source documents.

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