



ELECTRONIC TUBE REFERENCE

RK25

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Raytheon transmitting pentode designed for RF power and suppressor-grid modulation service. Manufacturer tables provide transmitting electrode voltages, currents, dissipation, power, and capacitance data.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7-Pin	BASE PINS	7
NOMINAL HEATER	6.3 V / 1 A	PARALLEL HEATER	– / –
HEATING	Indirect	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	10 W
MAXIMUM SCREEN DISSIPATION	8 W
<i>Published ratings and characteristics promoted from the approved Raytheon source.</i>	

Raytheon transmitting tube rated for r-f pentode suppressor modulator. Published table values include electrode voltages/currents, dissipation, power, and capacitances where shown.



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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RFOutputPower	22 W	—



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 1 voltage	-90 V	—
Grid 3 voltage	45 V	—
Maximum plate current	55 mA	—
Maximum grid 1 current	8 mA	—
Maximum grid 2 current	38 mA	—
Drive power	0.5 W	—
Output power	22 W	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.2 pF	—
Input capacitance	10 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output capacitance	10 pF	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1963 Siemens

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

1963 SIEMENS

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency	4.2 GHz	—
Resonator voltage	310 V	—
Resonator current	38 mA	—
Power output	180 mW	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tuning range	3.6-4.5 GHz	—