



ELECTRONIC TUBE REFERENCE

6BQ11

Voltage - Dual Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-PENTODE

Twin pentode designed for television receiver applications; available documentation does not establish a more specific role than general television signal amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	12
NOMINAL HEATER	10.6 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.013 S
MAXIMUM PLATE VOLTAGE	125 V
MAXIMUM SCREEN VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3.1 W
<i>Published electrical data promoted where unambiguous; additional values retained as parameters.</i>	

SECTION2 Pentode	
TRANSCONDUCTANCE	0.013 S
MAXIMUM PLATE VOLTAGE	125 V
MAXIMUM SCREEN VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3.1 W
<i>Published electrical data promoted where unambiguous; additional values retained as parameters.</i>	

Twin pentode for television receiver applications. The supplied datasheet was read for heater data, maximum ratings, characteristics, typical operating information, and interelectrode capacitances where published.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 RCA RC30

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

1975 RCA RC30

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No.2 (Screen-Grid) Supply Voltage	330 volts	Published datasheet value
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0 volts	Published datasheet value
Plate Voltage	125 volts	Published datasheet value
Grid-No.2 Voltage	125 volts	Published datasheet value
Cathode-Bias Resistor	56 ohms	Published datasheet value
Plate Resistance (Approx.)	0.2 megohm	Published datasheet value
Transconductance	13000 μS	Published datasheet value
Plate Current	11 mA	Published datasheet value
Grid-No.2 Current	3.8 mA	Published datasheet value
Grid-No.1-Circuit Resistance, for cathode-bias operation	0.25 megohm	Published datasheet value
Heater Warm-up Time (Average) 11	11 seconds	Published datasheet value
Plate Voltage	300 volts	Published datasheet value
Grid-No.2 (Screen-Grid) Voltage	300 volts	Published datasheet value
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0 volts	Published datasheet value
Cathode Current	65 mA	Published datasheet value
Transconductance	0.013 A/V	Promoted from published datasheet table

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Dissipation	3.1 watts	Published datasheet value
Maximum Plate Voltage	125 V	Promoted from published datasheet table
Maximum Screen Voltage	330 V	Promoted from published datasheet table
Maximum Plate Dissipation	3.1 W	Promoted from published datasheet table

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3	10.8 pF	Published datasheet value
Plate to Cathode, Heater, Grid No.2, and Grid No.3	6.5 pF	Published datasheet value

TUBE TINKER

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