

ELECTRONIC TUBE REFERENCE

8GU7

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TRIODE-TRIODE

Medium-mu twin triode intended for television matrixing, phase-inverter, multivibrator, and general amplifier applications, providing two versatile sections for signal-processing and timing circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	8.4 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	5500 Ω
TRANSCONDUCTANCE	0.0031 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3 W
Published ratings and characteristics extracted from the approved RCA source. Pulse-only ratings remain parameter rows unless explicitly continuous.	

SECTION2 Triode	
PLATE RESISTANCE	5500 Ω
TRANSCONDUCTANCE	0.0031 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3 W
<i>Physical triode section added to align rows with SectionCount.</i>	

Medium-mu twin triode for television matrixing, phase-inverter, multivibrator, and general amplifier applications.

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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Warm-up Time (Average)	11 s	Other;PublishedValue1
Heater Warm-up Time (Average)	11 s	Other;PublishedValue2
Peak value	200 V	Other;PublishedValue1
Peak value	200 V	Other;PublishedValue2
Average value	100 V	Other;PublishedValue1
Average value	100 V	Other;PublishedValue2
Plate Voltage	330 V	MaximumRating
Grid Voltage, Positive-bias value	0 V	MaximumRating
Plate Dissipation	3 W	MaximumRating
Maximum Plate Voltage	330 V	Section1
Maximum Plate Dissipation	3 W	Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate	3 pF	Capacitance;PublishedValue1
Grid to Plate	3 pF	Capacitance;PublishedValue2
Grid to Cathode and Heater	3.4 pF	Capacitance;PublishedValue1
Grid to Cathode and Heater	3.6 pF	Capacitance;PublishedValue2
Plate to Cathode and Heater	0.44 pF	Capacitance;PublishedValue1
Plate to Cathode and Heater	0.34 pF	Capacitance;PublishedValue2
Plate of Unit No.1 to Plate of Unit No	2 pF	Capacitance;PublishedValue1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate of Unit No.1 to Plate of Unit No	1 pF	Capacitance;PublishedValue2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	Characteristic
Grid Voltage	-10.5 V	Characteristic
Plate Resistance (Approx.)	5500 ohm	Characteristic
Transconductance	3100 uS	Characteristic
Plate Resistance	5500 ohm	Section1
Transconductance	3100 uS	Section1
Amplification Factor	17	Section1

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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