

ELECTRONIC TUBE REFERENCE

HCC85

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Miniature dual triode for RF-amplifier and oscillator-mixer circuits in FM and AM radio receivers, integrating front-end amplification and frequency conversion.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	17.5 V / 160 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0058 S
AMPLIFICATION FACTOR	48
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2.5 W
Promoted from published ratings/characteristics where directly applicable; additional published values retained in TUBE_SECTION_PARAMETER.	

SECTION2 Triode	
TRANSCONDUCTANCE	0.0058 S
AMPLIFICATION FACTOR	48
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2.5 W
Second physical triode section; added to align rows with SectionCount.	

Miniature type used in rf-amplifier and oscillator- mixer circuits in FM and AM radio receivers. Outlines section, 6B; requires miniature 9-contact socket.

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	17.5 volts	Published value from supplied target entry
Heater Current	0.16 ampere	Published value from supplied target entry
Plate Voltage	250 volts	Published value from supplied target entry
Grid- Voltage, Negative-bias Value	100 volts	Published value from supplied target entry
Cathode Current	15 mA	Published value from supplied target entry
Plate Dissipation	2.5 watts	Published value from supplied target entry
Plate Voltage	200 volts	Published value from supplied target entry
Grid Voltage	-2.1 volts	Published value from supplied target entry
Amplification Factor	48	Published value from supplied target entry
Transconductance	5800	Published value from supplied target entry
Plate Current	10 mA	Published value from supplied target entry

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Heater-Cathode Voltage ±	90 volts	Published value from supplied target entry

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to Grid (Each Unit)	1.5 PF	Published value from supplied target entry
Plate to Cathode (Each Unit)	0.18 PF	Published value from supplied target entry
Plate to Cathode, Heater, and Internal Shield (Each Unit)	1.2 PF	Published value from supplied target entry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Cathode, Heater, and Internal Shield (Each Unit)	3 PF	Published value from supplied target entry

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