

ELECTRONIC TUBE REFERENCE

20EZ7

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

High-mu twin triode intended for high-gain, low-level audio preamplifier service, with two similar sections having an amplification factor near 100 and low operating current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	20 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	62500 Ω
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.2 W
MAXIMUM CATHODE CURRENT	10 mA
Representative row for two identical high-mu triode sections.	

SECTION2 Triode	
PLATE RESISTANCE	62500 Ω
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.2 W
MAXIMUM CATHODE CURRENT	10 mA
<i>Second physical triode section; electrically identical twin section.</i>	

High-mu twin triode for high-gain low-level audio preamplifier service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 5 of 7

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

1971 RCA HB3 BINDER 5 OF 7

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	20 V	—
Heater current	100 mA	—
Plate voltage	100 V	ClassA;EachSection
Grid voltage	-1 V	ClassA;EachSection
Plate current	0.5 mA	ClassA;EachSection
Plate voltage	250 V	ClassA;EachSection
Grid voltage	-2 V	ClassA;EachSection
Plate current	1.2 mA	ClassA;EachSection
Maximum plate voltage	330 V	EachSection
Maximum negative grid-bias magnitude	55 V	EachSection
Plate dissipation	1.2 W	EachSection
Peak heater-cathode voltage heater negative	200 V	—
Peak heater-cathode voltage heater positive	200 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	100	EachSection
Plate resistance	80000 ohm	EachSection
Transconductance	1250 uS	EachSection
Plate resistance	62500 ohm	EachSection
Transconductance	1600 uS	EachSection

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	1.5 pF	EachSection
Grid-to-cathode/heater capacitance	1.6 pF	EachSection

TUBE TINKER

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

[Catalog](#)
[Tube types](#)
[Full books](#)
[Blog](#)
[Feedback & corrections](#)

© 2026 Tube Tinker