



ELECTRONIC TUBE REFERENCE

8AC10

Voltage - Triple Triode electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS

CONSTRUCTION

TRIODE-TRIODE-TRIODE

High-mu triple triode used in matrixing color-difference circuits of color television receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12FE	BASE PINS	12
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	10700 Ω
TRANSCONDUCTANCE	0.0058 S
AMPLIFICATION FACTOR	62
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2 W
<i>One representative row for three identical triodes; this sheet reproduces heater data and cross-references 6AC10 for the remaining ratings.</i>	

SECTION2 Triode	
PLATE RESISTANCE	10700 Ω
TRANSCONDUCTANCE	0.0058 S
AMPLIFICATION FACTOR	62
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2 W
<i>Physical triode section added to align rows with SectionCount.</i>	

SECTION3 Triode	
PLATE RESISTANCE	10700 Ω
TRANSCONDUCTANCE	0.0058 S
AMPLIFICATION FACTOR	62
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2 W
<i>Physical triode section added to align rows with SectionCount.</i>	

High-mu triple triode used in matrixing color-difference circuits of color television receivers.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltageNominal	8.4 V	—
HeaterOrFilamentCurrentNominal	450 mA	—
PublishedCrossReference	6AC10	Source states electrical identity except noted heater/mechanical differences

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
Plate Voltage	1530 V	Published in approved 8AC10 target datasheet entry; Section1
Plate Dissipation	2 W	Published in approved 8AC10 target datasheet entry; Section1
Plate Voltage	200 V	Published in approved 8AC10 target datasheet entry; Section1
Cathode-Bias Resistor	160 Ω	Published in approved 8AC10 target datasheet entry; Section1
Plate Resistance (Approx.)	10700 Ω	Published in approved 8AC10 target datasheet entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	5800 μS	Published in approved 8AC10 target datasheet entry; Section1
Plate Current	9 mA	Published in approved 8AC10 target datasheet entry; Section1
Grid Voltage (approx.) for plate current of 100 μ A	-5 V	Published in approved 8AC10 target datasheet entry; Section1
Grid-Circuit Resistance	0.5 MΩ	Published in approved 8AC10 target datasheet entry; Section1

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