

ELECTRONIC TUBE REFERENCE

9AK10

Voltage - Triple Triode electronic tube

CONSOLIDATED TECHNICAL DATA
3 SECTIONS
CONSTRUCTION
TRIODE-TRIODE-TRIODE

Compactron triple high-mu triode for multi-stage amplifier and signal-processing service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	12
NOMINAL HEATER	9.5 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	7500 Ω
TRANSCONDUCTANCE	0.007 S
AMPLIFICATION FACTOR	53
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2 W
Representative row for three identical high-mu triodes. Uploaded sheet is reference/equivalence-only: identical to 6AK10 except heater characteristics/ratings; promoted electrical values intentionally not inferred. GE/Sylvania: three high-mu triodes for color-difference amplification; electrical ratings as 6AK10 except heater. Each section: 330 V maximum plate voltage, 2 W maximum plate dissipation; typical values at 200 V plate, 10 mA plate current: gm 7000 μmhos, μ 53, rp approximately 7500 ohms.	

SECTION2 Triode	
PLATE RESISTANCE	7500 Ω
TRANSCONDUCTANCE	0.007 S
AMPLIFICATION FACTOR	53
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2 W
<i>Physical triode restored; equivalence/heater-only source does not support promoted electrical values. GE/Sylvania: three high-mu triodes for color-difference amplification; electrical ratings as 6AK10 except heater. Each section: 330 V maximum plate voltage, 2 W maximum plate dissipation; typical values at 200 V plate, 10 mA plate current: gm 7000 μmhos, μ 53, rp approximately 7500 ohms.</i>	

SECTION3 Triode	
PLATE RESISTANCE	7500 Ω
TRANSCONDUCTANCE	0.007 S
AMPLIFICATION FACTOR	53
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2 W
<i>Physical triode restored; equivalence/heater-only source does not support promoted electrical values. GE/Sylvania: three high-mu triodes for color-difference amplification; electrical ratings as 6AK10 except heater. Each section: 330 V maximum plate voltage, 2 W maximum plate dissipation; typical values at 200 V plate, 10 mA plate current: gm 7000 μmhos, μ 53, rp approximately 7500 ohms.</i>	

The 9AK10 is a Compactron containing three high-mu triodes, designed primarily as a color-difference amplifier in color television receivers. Except for heater characteristics and ratings, it is identical to the 6AK10.



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
Heater Voltage AC of D1 ttt i et i e e e	95 V	GENERAL
L 10 0 L 11 0 6+	40 mA	GENERAL
Heater Warm-up Time GVEIAG E - - o e vttt et e e et e ettt e ettt et ettt a e r e e	11 s	GENERAL
Heater voltage for a bogey tube at If	600 mA	GENERAL
The time required for the voltage across the heater to reach	80 %	GENERAL

TUBE TINKER

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