

ELECTRONIC TUBE REFERENCE

6AK10

Voltage - Triple Triode electronic tube

CONSOLIDATED TECHNICAL DATA
3 SECTIONS
CONSTRUCTION
TRIODE-TRIODE-TRIODE

Compactron triple high-mu triode for high-gain color-difference amplification in television receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	E12-70	BASE PINS	12
NOMINAL HEATER	6.3 V / 900 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 specification for all three identical triode sections.	

SECTION2 Triode	
PLATE RESISTANCE	7500 Ω
TRANSCONDUCTANCE	0.007 S
AMPLIFICATION FACTOR	53
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2 W
<i>Second identical physical triode section; added to align rows with SectionCount.</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>Third identical physical triode section; added to align rows with SectionCount.</i>	

The 6AK10 is a Compactron containing three high-mu triodes, designed primarily for color-difference amplifier service and especially suited to solid-state demodulators.

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	6.3 V	—
HeaterOrFilamentCurrentNominal	900 mA	—
Maximum Plate Voltage	330 V	—
Maximum Plate Dissipation	2 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	7500 Ohm	—
Transconductance	7000 uS	—
Amplification Factor	53	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridToPlateCapacitanceSection1	3.2 pF	—
Input Capacitance Section1	4.2 pF	—
Output Capacitance Section1	0.3 pF	—