



ELECTRONIC TUBE REFERENCE

11CF11

Voltage - Dual Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS

CONSTRUCTION

PENTODE-TRIODE-TRIODE

Color-television Compactron combining a frame-grid video-amplifier pentode with two high-transconductance triodes for wideband picture and associated signal-processing functions.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	12
NOMINAL HEATER	10.7 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	490000 Ω
TRANSCONDUCTANCE	0.0212 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	5 W
MAXIMUM SCREEN DISSIPATION	1 W

SECTION2 Triode	
PLATE RESISTANCE	12400 Ω
TRANSCONDUCTANCE	0.0055 S
AMPLIFICATION FACTOR	69
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2 W
<i>Triode Section 1 in source.</i>	

SECTION3 Triode	
PLATE RESISTANCE	9200 Ω
TRANSCONDUCTANCE	0.0063 S
AMPLIFICATION FACTOR	59
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.5 W
<i>Triode Section 2 in source.</i>	

The 11CF11 is a color-TV multifunction Compactron with a frame-grid video-amplifier pentode and high-transconductance triode sections.

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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	330 V	—
Plate Voltage	330 V	—
Plate Voltage	330 V	—
Plate Voltage	40 V	—
Plate Voltage	200 V	—
Plate Voltage	-55611 V	—
Plate Voltage	-55611 V	—
Plate Voltage	-56811 V	—
Screen Voltage	1 V	—
Screen Voltage	-55611 V	—
Plate Dissipation	50 W	—
Plate Dissipation	2 W	—
Plate Dissipation	1.5 W	—
ScreenDissipation	1 W	—
Plate Current	150 mA	—
Plate Current	-55611 mA	—
Screen Current	2 mA	—
Transconductance	11 uS	—
Transconductance	0 uS	—
Amplification Factor	0	—
Plate Resistance	490000 ohm	—
Plate Resistance	12400 ohm	—
Plate Resistance	9200 ohm	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid Voltage	0 V	—
Grid Voltage	0 V	—
Grid Voltage	100 V	—
Grid Voltage	1 V	—
Grid Voltage	-55611 V	—
Grid Voltage	-55611 V	—
Plate Voltage	200 V	AverageCharacteristics

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	4.7 pF	—
Input Capacitance	2.8 pF	—
GridNumber1toPlateCapacitance	0.13 pF	—
Input Capacitance	12.3 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	27.5 mA	AverageCharacteristics
Screen Current	4.9 mA	AverageCharacteristics

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Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	200 V	AverageCharacteristics

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	7.1 mA	AverageCharacteristics

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Section 3 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	200 V	AverageCharacteristics

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	7.6 mA	AverageCharacteristics

TUBE TINKER

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