

ELECTRONIC TUBE REFERENCE

4HA7

Voltage - Dual Triode (dissimilar) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TRIODE-TRIODE

Dissimilar Compactron double triode combining a high-mu section and a medium-mu section in one envelope, providing two substantially different voltage-amplifier characteristics for multifunction circuitry.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12FQ	BASE PINS	12
NOMINAL HEATER	4.2 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	7700 Ω
TRANSCONDUCTANCE	0.0022 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2.75 W
MAXIMUM CATHODE CURRENT	20 mA
Section 1 values mapped from the section-specific maximum-ratings and average-characteristics columns.	

SECTION2 Triode	
PLATE RESISTANCE	62500 Ω
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	0.3 W
<i>Section 2 values mapped from the section-specific maximum-ratings and average-characteristics columns.</i>	

The 4HA7 is a Compactron containing a high-mu triode and a medium-mu triode.

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
Plate Voltage	250 V	—
Grid Voltage	-8.5 V	—
Plate Current	10.5 mA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate Capacitance	1.4 pF	—
Input Capacitance	1.9 pF	—
Output Capacitance	1.9 pF	—

1968 GENERAL ELECTRIC CO

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	—
Grid Voltage	-2 V	—
Plate Current	1.2 mA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate Capacitance	1.5 pF	—
Input Capacitance	1.7 pF	—
Output Capacitance	1.8 pF	—