



ELECTRONIC TUBE REFERENCE

10GF7A

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Dissimilar dual triode combining a high-mu voltage-amplifier section with a low-mu 10 W power section, derived from the GF7 family for demanding driver and output applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	9.7 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	40000 Ω
TRANSCONDUCTANCE	0.0015 S
AMPLIFICATION FACTOR	60
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.5 W
<i>high-mu</i>	

SECTION 2 Triode	
PLATE RESISTANCE	1000 Ω
TRANSCONDUCTANCE	0.007 S
AMPLIFICATION FACTOR	6
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	10 W
<i>low-μ</i>	

Novar types used as combined vertical-deflection oscillator and vertical-deflection amplifiers in color and black-and-white television receivers. Outlines section, 30A; requires novar 9-contact socket. For curves of average plate characteristics for Unit No.1 and Unit No.2, refer to types 6DR7 (Unit No.1) and 6EM7, respectively. Types 10GF7A and 13GF7A are identical with type 6GF7A except for heater ratings.

6GF7A 10GF7A 13GF7A

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 5 of 7

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

1971 RCA HB3 BINDER 5 OF 7

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	330 V	Inherited from explicitly referenced 6-volt parent type
Plate Dissipation	1.5 W	Inherited from explicitly referenced 6-volt parent type

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1500 μ S	Inherited from explicitly referenced 6-volt parent type
Amplification Factor	60	Inherited from explicitly referenced 6-volt parent type

1971 RCA HB3 BINDER 5 OF 7

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	330 V	Inherited from explicitly referenced 6-volt parent type
Plate Dissipation	10 W	Inherited from explicitly referenced 6-volt parent type

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	7000 μ S	Inherited from explicitly referenced 6-volt parent type
Amplification Factor	6	Inherited from explicitly referenced 6-volt parent type

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No.1 Circuit Resistance	1 megohm	Published value from supplied target entry
# Pulse duration must not exceed	10	Published value from supplied target entry
Heater Voltage (ac/dc)	13 volts	Published value from supplied target entry
Heater Current	0.45 ampere	Published value from supplied target entry
Heater Warm-up Time (Average)	11 seconds	Published value from supplied target entry
Plate Voltage	150 volts	Published value from supplied target entry
Grid Voltage	-20 volts	Published value from supplied target entry
Amplification Factor	5.4	Published value from supplied target entry
Plate Resistance (Approx.)	760 ohms	Published value from supplied target entry
Transconductance	7200	Published value from supplied target entry
For plate current of	5.5 volts	Published value from supplied target entry
For plate current of	-45 volts	Published value from supplied target entry
Plate Current	50	Published value from supplied target entry
For plate voltage of	95 volts	Published value from supplied target entry
For grid voltage of	10 volts	Published value from supplied target entry
DC Plate Voltage	330 volts	Published value from supplied target entry
Peak Negative-Pulse Grid Voltage	400	Published value from supplied target entry
Peak Cathode Current	175 mA	Published value from supplied target entry
Average Cathode Current	60 mA	Published value from supplied target entry
Plate Dissipation	11 watts	Published value from supplied target entry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
# Pulse duration must not exceed	2.5	Published value from supplied target entry
Heater Voltage (ac/dc)	9.45 volts	Published value from supplied target entry
Heater Current	0.3 ampere	Published value from supplied target entry
Plate Voltage	125 volts	Published value from supplied target entry
Grid-No	125 volts	Published value from supplied target entry
Grid-No	-1 volts	Published value from supplied target entry
Amplification Factor	46	Published value from supplied target entry
Plate Resistance (Approx.)	200000 ohms	Published value from supplied target entry
Transconductance	7500 mhos	Published value from supplied target entry
Plate Current	12 mA	Published value from supplied target entry

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Direct Interelectrode Capacitances (Approx.) : Unit No.1 Unit No	2	Published value from supplied target entry
Grid to Plate	9 pF	Published value from supplied target entry
Grid to Cathode and Heater	6.5 pF	Published value from supplied target entry
Plate to Cathode and Heater	1.4 pF	Published value from supplied target entry
Grid to Plate	1.7 pF	Published value from supplied target entry
Grid to Cathode, Heater, Pentode Grid No	3	Published value from supplied target entry
Plate to Cathode, Heater, Pentode Grid No	3	Published value from supplied target entry
Heater to Cathode	3 pF	Published value from supplied target entry
Plate to Cathode, Heater, Grid No	3	Published value from supplied target entry
Heater to Cathode, Grid No	3 pF	Published value from supplied target entry

TUBE TINKER

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