



ELECTRONIC TUBE REFERENCE

13GF7

Power - TV Vertical Output electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Dissimilar dual triode in the 6GF7/10GF7/13GF7 family, intended for television vertical-deflection oscillator and amplifier service. Its low-mu output section carries substantially greater plate dissipation than the companion oscillator section.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	13 V / 450 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>	

SECTION2 Triode	
PLATE RESISTANCE	1000 Ω
TRANSCONDUCTANCE	0.007 S
AMPLIFICATION FACTOR	6.4
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM CATHODE CURRENT	50 mA
<i>low-μ</i>	

Printed companion designation in the 6GF7/10GF7/13GF7 dissimilar dual-triode family for television vertical-deflection service.

SOURCE OPERATING CONDITIONS

1940 RCA

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

1940 RCA

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	13 V	Published nominal value
Heater current	450 mA	Published nominal value
Transconductance	2700 μ S	Published operating characteristic
Amplification factor	46	Published operating characteristic

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	2 W	Published maximum or stated design maximum
Application	Vertical-deflection oscillator and amplifier	Television

1940 RCA

Section 2 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	13 V	Published nominal value
Heater current	450 mA	Published nominal value
Transconductance	7000 μ S	Published operating characteristic
Amplification factor	6.4	Published operating characteristic

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	11 W	Published maximum or stated design maximum

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 parent 6GF7.
Plate Dissipation	1.5 W	Inherited from explicitly referenced parent 6GF7.

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	40000 Ω	Inherited from explicitly referenced parent 6GF7.
Transconductance	1500 μS	Inherited from explicitly referenced parent 6GF7.
Amplification Factor	60	Inherited from explicitly referenced parent 6GF7.

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 parent 6GF7.
Plate Dissipation	10 W	Inherited from explicitly referenced parent 6GF7.

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	1000 Ω	Inherited from explicitly referenced parent 6GF7.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	7000 μS	Inherited from explicitly referenced parent 6GF7.
Amplification Factor	6	Inherited from explicitly referenced parent 6GF7.