



ELECTRONIC TUBE REFERENCE

LCF86

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Frame-grid triode-pentode used as a combined oscillator and mixer in VHF color and black-and-white television receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	150000 Ω
TRANSCONDUCTANCE	0.01 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	18 mA
<i>Published maximum ratings, characteristics, typical operation, rectifier data, and capacitances reviewed.</i>	

SECTION2 Pentode	
PLATE RESISTANCE	150000 Ω
TRANSCONDUCTANCE	0.01 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	160 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM SCREEN DISSIPATION	0.5 W
MAXIMUM CATHODE CURRENT	18 mA
<i>Published maximum ratings, characteristics, typical operation, rectifier data, and capacitances reviewed.</i>	

Miniature type with frame-grid pentode unit used as 9MP combined oscillator and mixer tubes in vhf color and black-and-white television receivers. Outlines section, 6B; requires minia- ture 9-contact socket. Types 5HG8/LCF86 and 7HG8/PCF86 are identical with type 6HG8/ECF86 except for heater ratings. 5HG8/ 6HG8/ 7HG8/ LCF86 ECF86 PCF86

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
Heater Voltage (ac/dc)	7.2 volts	Published value from supplied target entry
Heater Current	0.3 ampere	Published value from supplied target entry
Plate Voltage	250 volts	Published value from supplied target entry
Grid-No	150 volts	Published value from supplied target entry
Cathode Current	18	Published value from supplied target entry
Plate Dissipation	2 watts	Published value from supplied target entry
Grid-No	0.5 watt	Published value from supplied target entry
Plate Voltage	170 volts	Published value from supplied target entry
Grid-No	160 volts	Published value from supplied target entry
Voltage	-1.2 volts	Published value from supplied target entry
Amplification Factor	17	Published value from supplied target entry
Plate Resistance (Approx.)	0.35 megohm	Published value from supplied target entry
Transconductance	12000	Published value from supplied target entry
Plate Current	10 mA	Published value from supplied target entry
Grid-No	3.3 mA	Published value from supplied target entry
amperes,	11 amperes	Published value from supplied target entry
Plate Voltage	330 volts	Published value from supplied target entry
Grid-No	330 volts	Published value from supplied target entry
Grid-No	2	Published value from supplied target entry
Plate Dissipation	2.5 watts	Published value from supplied target entry
For grid-No	165 volts	Published value from supplied target entry
For grid-No	330 volts	Published value from supplied target entry
Plate Voltage	125 volts	Published value from supplied target entry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No	125 volts	Published value from supplied target entry
Grid-No.1 Voltage	-1 volt	Published value from supplied target entry
Amplification Factor	40	Published value from supplied target entry
Plate Resistance (Approx.)	150000 ohms	Published value from supplied target entry
Transconductance	10000	Published value from supplied target entry
Plate Current	12 mA	Published value from supplied target entry
Grid-No.1-Circuit Resistance	1 megohm	Published value from supplied target entry

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Heater-Cathode Voltage ±	100 volts	Published value from supplied target entry

TUBE TINKER

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and their source documents.

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