

ELECTRONIC TUBE REFERENCE

XL86

Power - TV Vertical Output electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

High-transconductance power pentode for television vertical-deflection and sound-output service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9CV	BASE PINS	9
NOMINAL HEATER	8 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9CV - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – IC	–	–	IC
PIN2 – G1	A	G1 – Control Grid	CONNECTED
PIN3 – G3	A	G3 – Suppressor Grid	CONNECTED
PIN3 – K	A	K – Cathode	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN6 – IC	–	–	IC
PIN7 – P	A	P – Plate (Anode)	CONNECTED
PIN8 – IC	–	–	IC
PIN9 – G2	A	G2 – Screen Grid	CONNECTED

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	26000 Ω
TRANSCONDUCTANCE	0.011 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	12 W
MAXIMUM SCREEN DISSIPATION	1.75 W
MAXIMUM CATHODE CURRENT	100 mA
<i>Published ratings and characteristics promoted from the approved source.</i>	

Power pentode used for vertical-deflection amplifier service in color and black-and-white television receivers.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

194X Miniwatt

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

194X MINIWATT

Section 1 · Pentode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	SoundOutput text	—



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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/dc) 8 10.6	15 V	Published in approved XL86 target datasheet entry; Section1
Heater Current 0.76 0.6 0.45	300 mA	Published in approved XL86 target datasheet entry; Section1
Plate Supply Voltage	600 V	Published in approved XL86 target datasheet entry; Section1
Grid-No.2 Voltage	220 V	Published in approved XL86 target datasheet entry; Section1
Grid-No.2 (Screen-Grid) Supply Voltage	600 V	Published in approved XL86 target datasheet entry; Section1
Grid-No.2 Input	2.1 W	Published in approved XL86 target datasheet entry; Section1
Peak Grid-No.2 Input	7 W	Published in approved XL86 target datasheet entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	170 V	Published in approved XL86 target datasheet entry; Section1
Grid-No.1-Circuit Resistance	1 MΩ	Published in approved XL86 target datasheet entry; Section1
Plate Voltage	275 V	Published in approved XL86 target datasheet entry; Section1
Peak Positive-Pulse Plate Voltage#	2200 V	Published in approved XL86 target datasheet entry; Section1
Grid-No.2 Voltage	275 V	Published in approved XL86 target datasheet entry; Section1
Peak Negative-Pulse Grid-No.1 Voltage	250 V	Published in approved XL86 target datasheet entry; Section1
Peak Cathode Current	240 mA	Published in approved XL86 target datasheet entry; Section1
Average Cathode Current	110 mA	Published in approved XL86 target datasheet entry; Section1
Plate Dissipation	12 W	Published in approved XL86 target datasheet entry; Section1
Grid-No.1-Circuit Resistance	2.2 MΩ	Published in approved XL86 target datasheet entry; Section1
# Pulse duration must not exceed 6 r/, of a vertical scanning cycle (	1.2 milliseconds	Published in approved XL86 target datasheet entry; Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 to Plate	0.6 pF	Published in approved XL86 target datasheet entry; Section1
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3	13 pF	Published in approved XL86 target datasheet entry; Section1
Plate to Cathode, Heater, Grid No.2, and Grid No.3	6.8 pF	Published in approved XL86 target datasheet entry; Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No.2 Voltage	170 V	Published in approved XL86 target datasheet entry; Section1
Grid-No.1 (Control-Grid) Voltage	12.5 V	Published in approved XL86 target datasheet entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	26000 Ω	Published in approved XL86 target datasheet entry; Section1
Transconductance	11000 μS	Published in approved XL86 target datasheet entry; Section1
Plate Current	70 mA	Published in approved XL86 target datasheet entry; Section1
Grid-No.2 Current	3.5 mA	Published in approved XL86 target datasheet entry; Section1

TUBE TINKER

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