

ELECTRONIC TUBE REFERENCE

XL500

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
BEAMPOWER

Magnoval beam-power tube designed as a horizontal-deflection amplifier in television receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9NH	BASE PINS	9
NOMINAL HEATER	13.3 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
MAXIMUM SCREEN VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	17 W
MAXIMUM SCREEN DISSIPATION	5 W
MAXIMUM CATHODE CURRENT	275 mA
Promoted from semantically identified published ratings/characteristics; additional values preserved as section parameters.	

Magnoval beam-power tube used as a horizontal-deflection amplifier in television receivers.

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 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
75; g;rid-No	2 V	Published in approved XL500 target datasheet entry; Section1
mA, 440; grid-No	2 mA	Published in approved XL500 target datasheet entry; Section1
Heater Voltage (ac/dc) 6.3 13.3 18	27 V	Published in approved XL500 target datasheet entry; Section1
Heater Current 1.38 0.6 0.45	300 mA	Published in approved XL500 target datasheet entry; Section1
Peak Positive-Pulse Plate Voltage*	7700 V	Published in approved XL500 target datasheet entry; Section1
DC Giid-No.2 (Screen-Grid) Voltage	275 V	Published in approved XL500 target datasheet entry; Section1
Average Cathode Current	275 mA	Published in approved XL500 target datasheet entry; Section1
Plate Dissipation 4	17 W	Published in approved XL500 target datasheet entry; Section1
Grid-No.2 Input"	5 W	Published in approved XL500 target datasheet entry; Section1
Without grid current	0.5 MΩ	Published in approved XL500 target datasheet entry; Section1
With grid current (horizontal-output service only)	2.2 MΩ	Published in approved XL500 target datasheet entry; Section1
# Pulse duration must not exceed 15% of a horizontal scanning cycle (	10 microseconds	Published in approved XL500 target datasheet entry; Section1
Grid-No.2 input may reach	6 W	Published in approved XL500 target datasheet entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No.2 input may reach 6 watts for plate-dissipation values below	11 W	Published in approved XL500 target datasheet entry; Section1