

ELECTRONIC TUBE REFERENCE

1X2C

Rectifier - TV Line Scan Boost electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
RECTIFIER

Later-version filamentary high-voltage rectifier for television flyback/EHT service. It rectifies horizontal-output transformer pulses to produce the CRT accelerating-voltage supply.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9Y	BASE PINS	9
NOMINAL HEATER	1.25 V / 200 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9Y - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – F1	–	F – Filament	CONNECTED
PIN2 – F2	–	F – Filament	CONNECTED
PIN3 – IC	–	–	IC
PIN4 – F1	–	F – Filament	CONNECTED
PIN5 – F2	–	F – Filament	CONNECTED
PIN6 – F1	–	F – Filament	CONNECTED
PIN7 – IC	–	–	IC
PIN8 – F2	–	F – Filament	CONNECTED
PIN9 – F1	–	F – Filament	CONNECTED
CAP1 – P	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	22000 V
NOMINAL OUTPUT CURRENT	0.5 mA
PEAK FORWARD CURRENT	45 mA
FORWARD VOLTAGE DROP	80 V
Rectifier section; ratings and characteristics promoted where clearly attributable.	

1X2C is a high-voltage vacuum rectifier for television power-supply or flyback service. The supplied RCA manual excerpt was reviewed for heater data, physical sections, maximum ratings, electrical characteristics, capacitances, and stated operating conditions.

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 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage (ac)	1.25 V	Filament Voltage (ac) 1.25 volts
Filament Current	200 mA	Filament Current 0.2 ampere
Peak Plate Current	45 mA	Peak Plate Current 45 mA
Tube Voltage Drop for plate current of	7 mA	Tube Voltage Drop for plate current of 7 mA volts
# Pulse duration must not exceed 15% of a horizontal scanning cycle (	10 us	# Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).
Peak Plate Current	90 mA	Peak Plate Current 90 mA
Average Plate Current	1.7 mA	Average Plate Current 1.7 mA
Average output/plate current	0.5 mA	Published section value

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	1.25 V	Rated heater condition
Heater current	200 mA	Rated heater condition

TUBE TINKER

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