



ELECTRONIC TUBE REFERENCE

21ARP4A

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Twenty-one-inch direct-view all-glass television picture tube with magnetic focus and magnetic deflection. It provides a large rectangular picture and uses an integral magnetic focusing unit requiring no external ion-trap magnet, gray face glass, and high-voltage operation for monochrome receiver service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12N	BASE PINS	5
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM SCREEN VOLTAGE	500 V

The 21ARP4-A 1s a magnetic-focus and magnetic-deflection, direct-view all-glass picture tube which provides a 19-1/8 by 14-3/16-inch picture for television applications. In this tube, a magnetic focusing unit which is an integral part of the electron gun permits a sharp over-all focus adjustable through a wide range of anode voltage by a shunt sleeve around the tube neck. An external ion-trap magnet is not required and should not be used. Other features of this tube include a high-quality gray faceplate which increases picture contrast and detail under high ambient light conditions, a reflective aluminized screen to increase light output, and a space-saving rectangular face shape. An external conductive coating serves as a filter capacitor when grounded.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Anode Voltage	16000 V	—
Typical Grid No. 2 Voltage	300 V	—
Grid No. 1 Maximum Negative Bias	125 V	—
Grid No. 1 Maximum Positive Peak	2 V	—

TUBE TINKER

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and their source documents.

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