

Large aluminized P4 monochrome television picture tube for high-voltage direct-view service, using electrostatic focusing and magnetic deflection with manufacturer-specified operating characteristics for type 23GJP4.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	22000 V
Published CRT maximum ratings, operating conditions, capacitances, and deflection/focus data retained; X-ray precautions apply at elevated EHT.	

23-inch 110-degree banded monochrome television CRT with short neck and low-grid-2 cathode-drive gun.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1964 RMA EIA

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

1964 RMA EIA

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	Electrostatic	—
Deflection method	Magnetic	—
Horizontal deflection angle	99 deg	—
Vertical deflection angle	82 deg	—
Diagonal deflection angle	110 deg	—
Heater voltage	6.3 V	—
Heater current	450 mA	—
Heater warm-up time	11 s	—
External coating-to-implosion hardware resistance minimum	50 Mohm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode-to-all capacitance	5 pF	—
Grid1-to-all capacitance	6 pF	—
External coating capacitance minimum	1700 pF	—
External coating capacitance maximum	2500 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage maximum	22000 V	—
Anode voltage minimum	11000 V	—
Typical anode voltage	18000 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical focus-electrode voltage	200 V	—
Typical grid2 voltage	50 V	—
Heater voltage maximum	6.9 V	—
Heater voltage minimum	5.7 V	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Monochrome television picture display	—