

ELECTRONIC TUBE REFERENCE

5G14AJ

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

High-resolution magnetic-focus, magnetic-deflection cathode-ray display tube with a metal-backed phosphor screen, designed for 15-30 kV second-anode operation and fine-line imaging.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B12A	BASE PINS	12
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	30000 V
Ratings, characteristics, typical operating points, and capacitances were extracted from the supplied Ferranti datasheet.	

Five-inch high-resolution high-light-output cathode-ray display tube with magnetic focus/deflection and metal-backed A phosphor.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Ferranti

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

1963 FERRANTI

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	300 mA	—
FocusingMethod	Magnetic	—
DeflectionMethod	Magnetic	—
ScreenConstruction	Metal-backed A phosphor	—
UsefulScreenDiameterMinimum	108 mm	—
CathodeToAllCapacitanceMaximum	15 pF	—
GridToAllCapacitanceMaximum	15 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FirstAnodeVoltageMinimum	300 V	—
FirstAnodeVoltageMaximum	600 V	—
SecondAnodeVoltageMinimum	15000 V	—
SecondAnodeVoltageMaximum	30000 V	—
HeaterCathodeVoltageMaximum	250 V	HeaterPositive
HeaterCathodeVoltageMaximum	150 V	HeaterNegative
CathodeResistanceMaximum	10 Mohm	—
GridResistanceMaximum	1.5 Mohm	—
FirstAnodeVoltage	500 V	—
SecondAnodeVoltage	25000 V	—
GridVoltageForVisualCutoff	-105 V	—
LineWidth	125 um	AOrPPPhosphor;BeamCurrent=50uA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
SpatialFrequencyResponse	95 cycles/cm	60PercentModulation;BeamCurrent=1uA
SpatialFrequencyResponse	30 cycles/cm	60PercentModulation;BeamCurrent=50uA

TUBE TINKER

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