



ELECTRONIC TUBE REFERENCE

803TM

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Rectangular television studio-monitor CRT with low-voltage electrostatic focusing and 90-degree magnetic deflection, designed for professional television monitoring rather than domestic receiver service.

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

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	15000 V
<i>Ratings, characteristics, typical operating points, and capacitances were extracted from the supplied Ferranti datasheet.</i>	

Rectangular television studio-monitor cathode-ray tube with low-voltage electrostatic focus and 90-degree magnetic deflection.

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	LowVoltageElectrostatic	—
DeflectionMethod	Magnetic	—
Deflection Angle	90 degree	—
ScreenConstruction	Metal-backed	—
CathodeToAllCapacitanceMaximum	8 pF	—
GridToAllCapacitanceMaximum	8 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FirstAnodeVoltageMinimum	200 V	—
FirstAnodeVoltageMaximum	500 V	—
SecondAndFourthAnodeVoltageMinimum	10000 V	—
SecondAndFourthAnodeVoltageMaximum	15000 V	—
ThirdAnodeVoltageMinimum	-500 V	—
ThirdAnodeVoltageMaximum	500 V	—
HeaterCathodeVoltageMaximum	150 V	HeaterPositive
HeaterCathodeVoltageMaximum	200 V	HeaterNegative
FirstAnodeVoltage	300 V	—
SecondAndFourthAnodeVoltage	12000 V	—
ThirdAnodeVoltageForFocus	-300 to +300 V	—
GridVoltageForVisualCutoff	-30 to -70 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AverageGridDriveFor100uABeamCurrent	25 V	—

TUBE TINKER

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and their source documents.

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