



ELECTRONIC TUBE REFERENCE

5X394LM

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Specialized Ferranti cathode-ray display tube documented for precision visual service, with manufacturer-defined electron-optical, screen, and deflection characteristics for type 5X394LM.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B9AD	BASE PINS	9
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	18000 V
Ratings, characteristics, typical operating points, and capacitances were extracted from the supplied Ferranti datasheet.	

Miniaturized rectangular airborne-radar cathode-ray tube with low-voltage electrostatic focus, magnetic deflection, and long-persistence L 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	LowVoltageElectrostatic	—
DeflectionMethod	Magnetic	—
ScreenConstruction	L phosphor	—
FirstAnodeVoltageForFocus	0 to -300 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FinalAnodeVoltageMinimum	8000 V	—
FinalAnodeVoltageMaximum	18000 V	—
ThirdAnodeVoltageMinimum	-500 V	Negative
FinalAnodeVoltage	15000 V	ShortGridBase
ThirdAnodeVoltage	-40 V	ShortGridBase
FirstAnodeVoltageForFocus	-150 V	ShortGridBase
ZeroBiasBeamCurrent	150 uA	ShortGridBase
FinalAnodeVoltage	15000 V	HighBrightness
ThirdAnodeVoltage	0 V	HighBrightness
ZeroBiasBeamCurrent	2.5 mA	HighBrightness

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

