



ELECTRONIC TUBE REFERENCE

622AM

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Six-inch triode cathode-ray tube designed for general flying-spot-scanner service, using magnetic focusing and magnetic deflection. Ferranti specifies anode capability to approximately 30 kV for bright optical scanning.

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	30000 V
<i>Ratings, characteristics, typical operating points, and capacitances were extracted from the supplied Ferranti datasheet.</i>	

Six-inch triode cathode-ray tube for general flying-spot-scanner service with magnetic focus and 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	Magnetic	—
DeflectionMethod	Magnetic	—
ScreenConstruction	Metal-backed	—
UsefulScreenDiameterMinimum	127 mm	—
AnodeVoltageRecommendedMinimum	17000 V	—
AnodeVoltageRecommendedMaximum	25000 V	—
CathodeToAllCapacitanceMaximum	8 pF	—
GridToAllCapacitanceMaximum	8 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterCathodeVoltageMaximum	200 V	HeaterNegative
HeaterCathodeVoltageMaximum	200 V	HeaterPositive
Anode Voltage	25000 V	—
GridVoltageForVisualCutoff	-200 V	—
GridDriveFor100uABeamCurrent	37 V	—
ScreenResolution	1000 lines	50fps
LightOutput	300 efc	PPhosphor;100uABeam;10x10cmRaster
FocusCoil	570 ampere-turn	—