



ELECTRONIC TUBE REFERENCE

504TM

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION  
CONSTRUCTION  
CATHODERAY

Five-inch camera-viewfinder cathode-ray tube with magnetic focusing and magnetic deflection and a metal-backed screen. Ferranti documentation gives anode capability to approximately 11 kV for camera monitoring.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | B8G               | BASE PINS            | 8             |
| 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                                                                                                     | 11000 V |
| Ratings, characteristics, typical operating points, and capacitances were extracted from the supplied Ferranti datasheet. |         |

Five-inch camera-viewfinder cathode-ray tube with magnetic focus and deflection and a metal-backed screen.



## 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 | 108 mm          | —                |

| OTHER                            |                 |                  |
|----------------------------------|-----------------|------------------|
| PARAMETER                        | PUBLISHED VALUE | CONDITION / NOTE |
| FirstAnodeVoltageMinimum         | 200 V           | —                |
| FirstAnodeVoltageMaximum         | 500 V           | —                |
| SecondAnodeVoltageMinimum        | 5500 V          | —                |
| SecondAnodeVoltageMaximum        | 11000 V         | —                |
| HeaterCathodeVoltageMaximum      | 150 V           | HeaterPositive   |
| HeaterCathodeVoltageMaximum      | 200 V           | HeaterNegative   |
| FirstAnodeSupplyImpedanceMaximum | 15 Mohm         | —                |
| FirstAnodeVoltage                | 300 V           | —                |
| SecondAnodeVoltage               | 7000 V          | —                |
| GridDriveFor50uABeamCurrent      | 20 V            | —                |
| FocusCoil                        | 570 ampere-turn | —                |

TUBE TINKER

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