



## ELECTRONIC TUBE REFERENCE

## 2103TB

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

**1 SECTION**  
CONSTRUCTION  
**CATHODERAY**

Twenty-one-inch television monitor CRT with low-voltage electrostatic focus, magnetic deflection, and 90-degree scanning. Its white short-persistence T-type screen and high-voltage operation are suited to direct-view monitor and television display service.

## GENERAL CHARACTERISTICS

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

## SECTION RATINGS

|                                                                                                                                                             |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <b>SECTION 1</b> Cathode Ray                                                                                                                                |         |
| MAXIMUM PLATE VOLTAGE                                                                                                                                       | 18000 V |
| <i>Published Ferranti ratings, capacitances, and typical operating data promoted where applicable; additional electrical values retained as parameters.</i> |         |

21-inch television monitor CRT with low-voltage electrostatic focus, magnetic deflection, and 90-degree 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

| CHARACTERISTICS   |                 |                  |
|-------------------|-----------------|------------------|
| PARAMETER         | PUBLISHED VALUE | CONDITION / NOTE |
| Focusing method   | Electrostatic   | —                |
| Deflection method | Magnetic        | —                |
| Deflection angle  | 90 deg          | —                |
| Fluorescence      | White           | —                |
| Persistence       | Short           | —                |

| CONSTRUCTION  |                 |                  |
|---------------|-----------------|------------------|
| PARAMETER     | PUBLISHED VALUE | CONDITION / NOTE |
| Phosphor type | T               | —                |

| APPLICATION |                               |                  |
|-------------|-------------------------------|------------------|
| PARAMETER   | PUBLISHED VALUE               | CONDITION / NOTE |
| Application | Radar / monitor / display CRT | —                |

| OTHER                                |                 |                  |
|--------------------------------------|-----------------|------------------|
| PARAMETER                            | PUBLISHED VALUE | CONDITION / NOTE |
| First-anode voltage maximum          | 500 V           | —                |
| Second/fourth-anode voltage maximum  | 18000 V         | —                |
| Third-anode positive voltage maximum | 500 V           | —                |
| Third-anode negative voltage maximum | -500 V          | —                |
| Heater-cathode voltage maximum       | 200 V           | —                |
| First-anode operating voltage        | 300 V           | —                |

| PARAMETER                         | PUBLISHED VALUE | CONDITION / NOTE |
|-----------------------------------|-----------------|------------------|
| Third-anode focus voltage minimum | <b>-200 V</b>   | —                |
| Third-anode focus voltage maximum | <b>200 V</b>    | —                |

| CAPACITANCE                              |                 |                  |
|------------------------------------------|-----------------|------------------|
| PARAMETER                                | PUBLISHED VALUE | CONDITION / NOTE |
| Cathode-to-all capacitance maximum       | <b>8 pF</b>     | —                |
| Grid-to-all capacitance maximum          | <b>8 pF</b>     | —                |
| External-coating capacitance approximate | <b>1500 pF</b>  | —                |

## TUBE TINKER

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