



## ELECTRONIC TUBE REFERENCE

## 12FP7

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

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

12FP7 12-inch P7 phosphor cathode-ray tube with electrostatic focusing and two-axis electrostatic deflection, 6.3 V 0.6 A heater.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | 12            |
| NOMINAL HEATER      | 6.3 V / 600 mA    | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>SECTION1</b> Cathode Ray                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |
| MAXIMUM PLATE VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8800 V |
| MAXIMUM SCREEN VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2200 V |
| <i>12FP7 electrostatically focused and deflected CRT. Maximum anode3 supplementary HV electrode 8800 V; anode2 4400 V; anode1 focus 2200 V; grid2 accelerator 2200 V; grid1 never positive. Peak voltage between anode2 and any deflection electrode max 1100 V. Heater negative relative cathode DC max 125 V. Typical configurations: A3 4000/4000/6000/8000 V, A2 2000/4000/3000/4000 V, A1 625/1250/937/1250 V, grid2 2000 V, grid1 cutoff -60 V. Deflection plate pairs D1/D2 and D3/D4; max capacitances cathode-to-other 10 pF, grid1-to-other 10 pF, each deflection pair 5 pF. Grid circuit resistance max 1.5 MΩ, deflection supply impedance at heater frequency max 1 MΩ. P7 phosphor, 12-inch bulb.</i> |        |