

# >> FC10FT(1401)VHF tetrode

■ Operating frequency:250 MHz

Peak-of-sync output power in combined amplification:1 kW

## General characteristics

Cathode .....Oxide  
Heating .....Indirect  
Heater voltage ..... $10.7 \pm 0.3V$   
Heater current ..... $6.45 \pm 0.25A$   
Interelectrode capacitances  
    Cathode-Control-grid ..... 50 pF  
    Control-grid-Screen-grid ..... 66 pF  
    Screen-grid-anode ..... 13pF  
Transconductance ..... 25 mA/V  
Internal amplification factor.....7  
Operating position .....Vertical, anode up or down  
Weight..... 1.04 Kg  
Dimensions .....See page 94  
Cooling..... Forced air  
Anode air flow ..... 3000 L/min  
Stem air flow..... 800L/min  
Temperature at the seal, max..... 250°C  
Temperature at the terminal, max.....150°C  
Temperature on the surface of the tube, max..... 250°C



## Maximum ratings

Frequency..... 250MHz  
Anode voltage ..... 4kV  
Anode current .....1.5 A  
Screen-grid voltage.....650V  
Control-grid voltage .....-150V  
Anode dissipation ..... 2.5 kW  
Control-grid dissipation .....10 W  
Screen-grid dissipation ..... 40 W

## Typical operation

|                               |            |     |
|-------------------------------|------------|-----|
| Frequency                     | 167-223    | MHz |
| Peak-of-sync output power     | 1.0        | kW  |
| Bandwidth (-1dB)              | 8          | MHz |
| Intermodulation distortion    | $\leq -50$ | dB  |
| Gain                          | 12         | dB  |
| Anode voltage                 | 2.5        | kV  |
| Screen-grid voltage           | 400        | V   |
| Anode current(with signal)    | 0.65       | A   |
| Anode current(at zero signal) | 0.5        | A   |