

VHF TETRODE

FU113F

PEAK-OF-SYNC OUTPUT POWER IN TV VISION CARRIER AMPLIFICATION: 13.4 KW

GENERAL CHARACTERISTICS

Cathode	Thoriated tungsten
Heating	Direct
Filament voltage	7.5V
Filament current	12 0A
Interelectrode capacitances, approx.:	
Control-control grid	56pF
Control grid-screen grid	91pF
Control grid-anode	0.6pF
Cathode-anode	0.075pF
Transconductance ($I_a=2A$)	60 mA/V
Internal amplification factor, average	8.75
Operating position	Vertical, anode up
Weight, approx	9.4kg
Dimensions	See page 95
Anode cooling	Forced air
Cooling at the sealing between electrode terminal and ceramic	Forced air
Temperature on tube surface, max	250°C

TYPICAL OPERATION

Vision carrier	
Peak-of-sync output power	13.4 KW
Anode voltage	6.2 KV
Control-grid bias voltage	-120 V
Screen-grid voltage	880 V
Anode current, with signal	3.5 A
Control-grid current	46 MA
Screen-grid current	27 mA



MAXIMUM RATINGS

Frequency	250 MHz
Anode voltage	8 kV
Anode current	5.5 kV
Screen-grid voltage	1.5 kV
Anode dissipation	15 kW
Control-grid dissipation	180 W
Screen-grid dissipation	300 W