

UHF TRIODE

FC620F

PEAK-OF-SYNC OUTPUT POWER IN COMBINED AMPLIFICATION:

100 W

GENERAL CHARACTERISTICS

Cathode	Oxide
Heating	Indirect
Heater voltage	5.5 V ⁽¹⁾
Heater current	5.4 A ⁽¹⁾
Interelectrode capacitances, approx.:	
Grid-anode	8.2 pF
Cathode-grid	19 pF
Cathode-anode	0.07 pF
Transconductance(Ia=0.4A, Ua=1800 V)	≥80 mA/V
Amplification factor, average	180
Operating position	Any
Weight, approx.	950 g
Dimensions	See page 94
Anode cooling(2)	Forced air
Airflow, min.	500 L/min
Temperature at air outlet, max.	100°C
Temperature on tube surface, max.	250°C

(1) The operating heater voltage must be defined according to each particular situation. As an indication for equipment design purposes only, a given heater voltage of 5.5V produces a given heater current of 5.4A.

(2) Values for cooling given for maximum anode dissipation.

TYPICAL OPERATION

Combined Service	
Frequency	780 MHz
Peak-of-sync output power	100 W
Bandwidth (-1dB)	8 MHz
Intermodulation distortion	≤-52 dB
Gain	20 dB
Anode voltage	1.8 kV
Anode current(at zero signal)	0.4 A

MAXIMUM RATINGS

Frequency	1000 MHz
Anode voltage	2.2 kV
Anode current	0.6 A
Anode dissipation	750 W

