〉〉 FC 308C*(1405)***UHF** tetrode

■ ***Peak-of-sync output power in combined amplification:10.5kW***

General characteristics

Cathode ……Thoriated tungsten
Heating……Direct,DC or single phase AC
Filament voltage……4.2 V(1)
Filament current……130A(1)
Interelectrode capacitances,approx:
Cathode-control-grid……72pF
Control-grid-screen-grid……93pF
Screen-grid-anode……13.2pF
Transconductancd(Ia=1.5A,U_{g2}=600V)……80mA/V
Internal amplification factor,average……8
Operating position……Vertical,anode up
Weight,approx.……4.1kg
Dimensions……See page 95
Anode cooling(2) ……Hypervapotron
Air flow ,min.……15L/min
Pressuer at water inlet,max.……5×10^5 Pa
Temperature at water outlet,max.……80℃
Cooling at ghe sealing between electrode germinal and cermic……Forced air
Temperature on the surface of the tube,max.……300℃

(1)The operating filament voltage must be defined according to each Particular situation.
As an indication for epuipment design purposes only,a given filament voltage of 4.2V produces a given filament current of 130A.
(2) Values for cooling given for maximum anode dissipation

Maximum ratings

Frepuency……1000MHz
Anode voltage ……7 kV
Anode current……4.5A
Screen-grid voltage……800V
Anode dissipation……25kW
Control-grid dissipation……50W
Screen-grid dissipation……120W

Typical operation

Conbined amplification

Frepuency	700	MHz
Peak-of-sync output power	10.5	kW
Bandwidth (-1dB)	8	MHz
Intermodulation distortion	-48	dB
Gain	15	dB
Anode voltage	5.5	kV
Screen-grid voltage	600	V
Anode current (with signal)	3.45	A
Anode current (at zero signal)	1.5	A
Control-grid cuttent	20	mA
Screen-grid current	50	mA

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