

>> FC 312F(1316)/FC 313F (1317) /1022 (1331) triode

■ Pulse output power 2.5 kW

General characteristics

Cathode.....Oxide
 HeatingIndirect
 Heater voltage 6 V
 Heater current..... 1.3A
 Interelectrode capacitances, approx. :
 Grid-cathode 1.7 pF
 Cathode-grid 9.5 pF
 Cathode-anode 0.065 pF
 Transconductance ($I_a=75\text{mA}$) 32 mA/V
 Amplification factor, average.....110
 Operating positionAny
 Weight(without radiator)..... 20g
 DimensionsSee page 94
 Cooling.....Conduction and convection or forced air
 Temperature on the surface of the tube , max..... 250°C

Maximum ratings

Frequency.....3000MHz
 Anode pulse voltage.....3500V
 Anode current, average.....16mA
 Pulse anode current.....5A
 Average anode dissipation,
 Conduction and convection cooled without radiator.....10W
 Forced air cooled with radiator.....60W
 Average grid dissipation.....1.5W
 Grid voltage.....-150V



Class C grid-pulsed RF power amplification

Frequency	1100	MHz
Pulse output power	2.5	kW
Anode dc voltage	2	kV
Grid dc bias voltage	-70	V
Peak anode current	3.0	A
Peak grid pulse current	1.0	A
Duty factor	0.001	
Pulse duration	3.5	μs

Typical operation