

VHF Tetrode

FU820C

OPERATING FREQUENCY:

200MHz

ANODE OUTPUT POWER:

30KW

GENERAL CHARACTERISTICS

Cathode	Thoriated tungsten
Heating	Direct
Filament voltage	8.5V
Filament current	180-194A
Interelectrode capacitances	
Cathode-control	89pF
Control grid-screen grid	140pF
Screen grid-anode	27pF
Transconductance (Ua=2kV, Ia=3A)	85mA/V
Internal amplification factor	7
Operating position	Vertical, anode up or down
Weight	15kg
Dimensions	See page 95
Cooling	Vapour cooled for anode, forced air for stem
Air flow, min	5000L/min
Cooling water pressure drop	$7.8 \times 104 \text{ Pa}$
Temperature at the air inlet, max	45°C
Temperature on tube surface, max.	250°C

TYPICAL OPERATION

for 30kW high frequency transmitter

Frequency	220 MHz
Anode voltage	10.5 kV
Screen-grid voltage	1.1 V
Output power	30 kW



MAXIMUM RATINGS

Frequency	200MHz
Anode voltage	11kV
Anode Current	12A
Control-grid voltage	-1kV
Screen-grid voltage	1.5kV
Anode dissipation	70kW
Control-grid dissipation	0.2kW
Screen-grid dissipation	0.4kW