

>> FU 720F(1429) VHF tetrode

■ *Peak-of-sync output power in combined amplification:1.36 kW*

Peak-of-sync output power in vision carrier amplification:2.72 kW

General characteristics

CathodeThoriated tungsten
 Heating.....Direct, DC single phase AC
 Filament voltage..... $4V \pm 5\%$
 Filament current.....78A
 Interelectrode capacitances,approx.:
 Cathode-control grid.....54pF
 Control grid-screen grid.....95 pF
 Screen grid-anode14 pF
 Transconductance ($I_a=1.6A, U_{g2}=500V$)70mA/V
 Internal amplification factor, average.....11
 Operating position.....Vertical, anode up or down
 Weight, approx.2.7 kg
 Dimensions.....See page 95
 Anode cooling(1)Forced air
 Air flow, min.4500L/min
 Air pressure, min.400Pa
 Temperature on the surface of the tube, max.....250℃

(1) Values for cooling given for maximum anode dissipation



Maximum ratings

Frequency.....250MHz
 Anode voltage.....5kV
 Anode current.....2.4A
 Control-grid voltage.....500V
 Screen-grid voltage.....1kV
 Anode dissipation.....3.5kW
 Control-grid dissipation.....20W
 Screen-grid dissipation.....50W

Typical operation

	Combined amplification	Vision only	
Frequency	220	220	MHz
Peak-of-sync output power	1.36	2.72	kW
Bandwidth(-1dB)	8	6	MHz
Gain	15	15	dB
Anode voltage	2.5	3.0	kV
Control-grid bias voltage	-40	-40	V
Screen-grid voltage	500	500	V
Anode current(with signal)	1.11	1.6	A
Anode current(at zero signal)	0.5	0.5	A