

VHF TETRODE

FU002F

OUTPUT POWERS IN FM TRANSMITTERS:

36.5KW

GENERAL CHARACTERISTICS

Cathode	Thoriated tungsten
Heating	Direct
Filament voltage	6.3 V0 -0.3
Filament current	160A
Interelectrode capacitances (grounded cathode), approx.	
Input	175pF
Output	32pF
Transfer	1.5pF
Transconductance ($I_a=3.5A, U_{g2}=750V$)	45mA/V
internal Amplification factor, average	5
Operating position	Vertical
Weight, approx:	5.8kg
Dimensions	See page 95
Anode cooling	Forced air
Temperature on tube surface, max.	250°C



TYPICAL OPERATION

<i>Example</i>		1	2
Frequency	[MHz]	110	110
Output power	[kW]	10	36.5
Anode voltage	[kV]	7.4	10
Control-grid bias voltage	[V]	-300	-550
Screen-grid voltage	[V]	720	750
Anode current	[A]	3	4.55
Control-grid current	[mA]	10	270
Screen-grid current	[mA]	80	540

MAXIMUM RATINGS

Frequency	225MHz
Anode voltage	10kV
Anode current	5.0A
Control-grid voltage	-1.5kV
Screen-grid voltage	1.5kV
Anode dissipation	15kW
Control-grid dissipation	200W
Screen-grid dissipation	450W



