

AM Tetrode

FU003Z

OUTPUT POWERS IN SW TRANSMITTER WITH FREQUENCY OF 30 MHz:

100-200 KW

GENERAL CHARACTERISTICS

Cathode	Thoriated tungsten
Heating	Direct
Filament voltage	10 V
Filament current	300 A
Interelectrode capacitances, approx.:	
Grounded Cathode	
Input	440 pF
Output	55 pF
Feed-through	2.3 pF
Grounded Grid	
Input	175 pF
Output	57 pF
Feed-through	0.4 pF
Transconductance($I_a=20A$, $u_{g2}=1.5kV$)	166.7 mA/V
Internal Amplification factor, average	4.5
Operating position	Vertical, anode down
Weight, approx.	35 kg
Dimensions	See page 95
Anode cooling	Vapotron
Cooling at the sealing between electrode terminal and ceramic	Forced air
Temperature on the surface of the tube, max.	250°C

TYPICAL OPERATION

Class C RF-Amplifier Plate Modulated

Frequency	≤ 30 MHz
Output power	138.5 kW
Anode voltage	16 kV
Control-grid bias voltage	-700 V
Screen-grid voltage	750 V
Anode current	12.0 A
Control-grid current	1.20 A
Screen-grid current	1.75 A

MAXIMUM RATINGS

Frequency	30 MHz
Anode voltage	20 kV
Anode current	15 A
Control-grid voltage	-1050 V
Screen-grid voltage	2.5 kV
Anode dissipation	100 kW
Control-grid dissipation	500 W
Screen-grid dissipation	1.75 kW

