

AM TETRODE

1446

OUTPUT POWER IN SW AND MW:

50-150 KW

GENERAL CHARACTERISTICS

Cathode	Thoriated tungsten
Heating	Direct
Filament voltage	10.0 ± 0.5 V
Filament current	295 A
Interelectrode capacitances, approx.:	
Grounded Cathode	
Input	40 pF
Output	51 pF
Feed-through	2.3 pF
Grounded Grid	
Input	175 pF
Output	55 pF
Feed-through	0.5 pF
Internal amplification factor, average	4.5
Operating position	Vertical, anode up or down
Weight, approx.	22.7 kg
Dimensions	See page 95
Cooling	Forced air
Temperature on the surface of the tube, max.	250°C

MAXIMUM RATINGS

Frequency	30 MHz
Anode voltage	20kV
Anode current	15A
Control-grid voltage	-2.0kV
Screen-grid voltage	2.5kV
Anode dissipation	35kW
Control-grid dissipation	500W
Screen-grid dissipation	1750W



TYPICAL OPERATION

Class AB RF linear amplification

Frequency	≤ 30 MHz
Output power	55 kW
Anode voltage	15 kV
Control-grid bias voltage	-400 V
Screen-grid voltage	1.5 kV
Anode current (with signal)	5.7 A
Anode current (at zero signal)	1.0 A
Screen-grid current	0.9 A



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