

AM Tetrode

DB935

OPERATING FREQUENCY:
MAX, OUTPUT POWER

30 MHz
650 KW IN LW AND MW, AND 550 KW IN SW

GENERAL CHARACTERISTICS

Cathode	Thoriated tungsten
Heating	Direct
Filament voltage	23 ± 2% V
Filament current	500 A
Capacitances(cathode earthed)	
Input	1195 pF
Output	100.6 pF
Transfer	6.3 pF
Transconductance (I _a =35A, U _{g2} =1kV)	500 mA/V
Internal amplification factor	4.4
Operating position	Vertical, anode up
Weight	74 kg
Dimensions	See page 95
Anode cooling	Vapour cooled
Water flow, min.	200L/min
Temperature at the water outlet, max.	100°C
Pressure at the water inlet, max.	5 × 10 ⁵ Pa
Temperature on tube, max.	250°C

MAXIMUM RATINGS

Frequency	30 MHz
Anode voltage	15kV
Screen-grid voltage	1.5kV
Control-grid voltage	-800 V
Anode dissipation	500 kW
Screen-grid dissipation	8kW
Control-grid dissipation	3 kW

TYPICAL OPERATION (CLASS C)

Example	1	2
Frequency [MHz]	≤ 30	≤ 30
Output power [KW]	550	550
Anode DC voltage [KV]	12.5	14
Screen-grid DC voltage [KV]	1	1
Control-grid DC voltage [V]	-600	-550
Anode DC current [A]	54	47
Screen-grid DC current [A]	5	4.2
Control-grid DC current [A]	5	4