

AM Tetrode

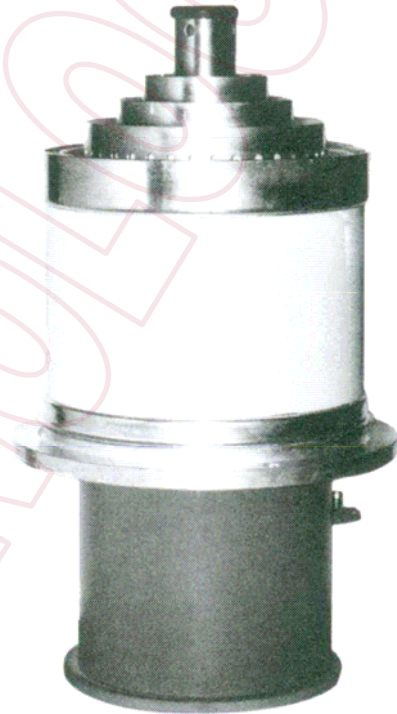
DB930

OPERATING FREQUENCY:
MAXIMUM OUTPUT POWER:

30 MHz
305 KW

GENERAL CHARACTERISTICS

Cathode	Thoriated tungsten
Heating	Direct
Filament voltage	$18 \pm 2\%$ V
Filament current	430 A
Capacitances	
Cathode-Control-grid	310 pF
Cathode—Screen-grid	26 pF
Cathode—anode	0.6 pF
Control-grid—Screen-grid	510 pF
Control-grid—anode	4.5 PF
Screen-grid—anode	74 pF
Transconductance ($I_a=25A$, $U_{g2}=1kV$)	400 mA/V
Internal amplification factor	4.3
Operating position	Vertical, anode up
Weight	53 kg
Dimensions	See page 95
Anode cooling	Vapour cooled
Water flow, min.	150L/min
Temperature at the water outlet, max.	100°C
Pressure at the water inlet, max	5×10^5 pa
Temperature on tube surface, max.	200°C



MAXIMUM RATINGS

Frequency	30 MHz
Anode voltage	15 kV
Control-grid voltage	-800 V
Screen-grid voltage	1.5 kV
Anode dissipation	300 kW
Control-grid dissipation	2 kW
Screen-grid dissipation	5 kW

TYPICAL OPERATION

CLASS C

Frequency	≤ 30 MHz
Carrier wave output power	305 kW
Anode DC voltage	11 kV
Screen-grid DC voltage	1 kV
Control-grid DC voltage	-550 V
Anode DC current	36 A
Screen-grid DC current	1.3 A
Control-grid DC current	2 A

