

UHF Tetrode

DB931

OPERATING FREQUENCY:

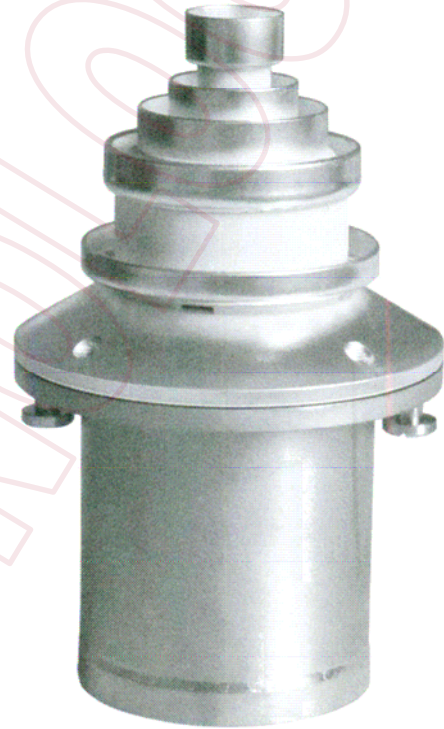
850MHz

PEAK-OF-SYNC OUTPUT POWER IN COMBINED AMPLIFICATION:

1.1 KW

GENERAL CHARACTERISTICS

Cathode	Thoriated tungsten
Heating	Direct
Filament voltage	6V
Filament current	34A
Interelectrode capacitances	
Cathode-Control-grid	40pF
Cathode-grid-Screen-grid	50pF
Screen-grid-anode	8.2pF
Transconductance	40mA/V
Internal amplification factor	7
Operating position	vertical, anode up
Weight	2.1kg
Dimensions	See page 95
Anode cooling	Vapour Cooled
Water flow, min,	3L/min
Pressure at the water inlet, max,	5×105Pa
Temperature at the water outlet	≤100°C
Cooling at the sealing between electrode and ceramic	Forced air
Temperature on tube surface, max,	250°C



TYPICAL OPERATION

		Combined Service	Vision only
Frequency	[MHz]	850	850
Peak-of-sync output power	[kW]	1.1	2.2
Bandwidth(-1dB)	[MHz]	8	6
Intermodulation distortion	[dB]	-54	-54
Gain	[dB]	15.5	15.5
Anode voltage	[KV]	4	4
Screen-grid voltage	[V]	400	400
Anode current (with signal)	[A]	0.8	1.5
Anode current (at zero signal)	[A]	0.5	0.5
Control-grid current	[mA]	≈0	2
Screen-grid current	[mA]	5	8

MAXIMUM RATINGS

Frequency	1000 MHz
Anode voltage	5 kV
Anode current	2 A
Anode dissipation	5 kW
Control-grid dissipation	5 W
Screen-grid dissipation	25 W