



WVS-TECHNOLOGY

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UHF Tetrode

RS1034L

PEAK-OF-SYNC OUTPUT POWER IN COMBINED AMPLIFICATION:

6.3kW

PEAK-OF-SYNC OUTPUT POWER IN VISION CARRIER AMPLIFICATION :

12.4kW

GENERAL CHARACTERISTICS

Cathode	Thoriated tungsten
Heating	Direct
Filament voltage	4.5 V
Filament current	205 A
Interelectrode capacitances, approx:	
Cathode-control grid	95pF
Cathode-grid-screen grid	184pF
Control-grid-anode	0.55pF
Screen-grid-anode	23pF
Transconductance (I _a =2-4A, U _a =2kV, U _{g2} =800V)	100mA/V
Internal amplification factor, average	7.5
Operating position	Vertical, anode up or down
Weight, approx.	5.3kg
Dimensions	See page 95
Anode Cooling(1)	Forced air
Air flow ,min.	11000L/min
Corresponding pressure drop.	1800Pa
Temperature at air water outlet, max.	95°C
Cooling at the sealing between electrode terminal and ceramic	Forced air
Temperature on tube, max.	220°C
(1) Values for cooling given for max. anode dissipation	

MAXIMUM RATINGS

Frequency	960MHz
Anode voltage	5.5kV
Anode current	6.0A
Control-grid voltage	-200kW
Screen-grid voltage	1KV
Anode dissipation	13kW
Control-grid dissipation	80W
Screen-grid dissipation	180W



TYPICAL OPERATION

		Combined service	Vision only
Frequency	[MHz]	470-800	470-800
Peak-of-sync output power	[kW]	6.3	12.4
Bandwidth(-1dB)	[MHz]	8	6
Intermodulation distortion	[dB]	≤-52	-
Gain	[dB]	16	16
Anode voltage	[KV]	5.1	5.1
Control-grid bias voltage	[V]	-108	-110
Screen-grid voltage	[V]	800	800
Anode current (black level)	[A]	2.8	3.6
Anode current (at zero signal)	[A]	1.8	1.6
Screen-grid current, black level	[mA]	50	60