

PL582
U.H.F.
Tetrode



GENERAL CHARACTERISTICS

Electrical

Type of Cathode	Thoriated tungsten
Heating	Direct, dc or single phase ac
Heater Current, approx.	146 A
Interelectrode Capacitances, approx.	
Cathode - control grid	72 pF
Cathode - anode	0.03 pF
Control grid - screen grid	93 pF
Control grid - anode	0.37 pF
Screen grid - anode	13.2 pF
Amplification factor, average	8
Transconductance	
($I_a = 2$ A, $V_{g2} = 300$ V)	80 mA/V

Mechanical

Operating position	Vertical, anode up
Weight, approx.	41 kg
Dimensions	See outline drawing

Anode Cooling

Maximum anode dissipation	25 kW
Minimum corresponding water flow	15 l/min
Maximum pressure at the water inlet	5 bar
Maximum temperature of the outlet water	100 °C

Screen Grid Terminal Cooling

Type	Distilled water
Minimum water flow	1.5 l/min

(Revised 06/19/95)



P E N T A L A B O R A T O R I E S
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ELECTRON TUBES FOR INDUSTRY



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Electrode-terminal and Ceramic-seals Cooling

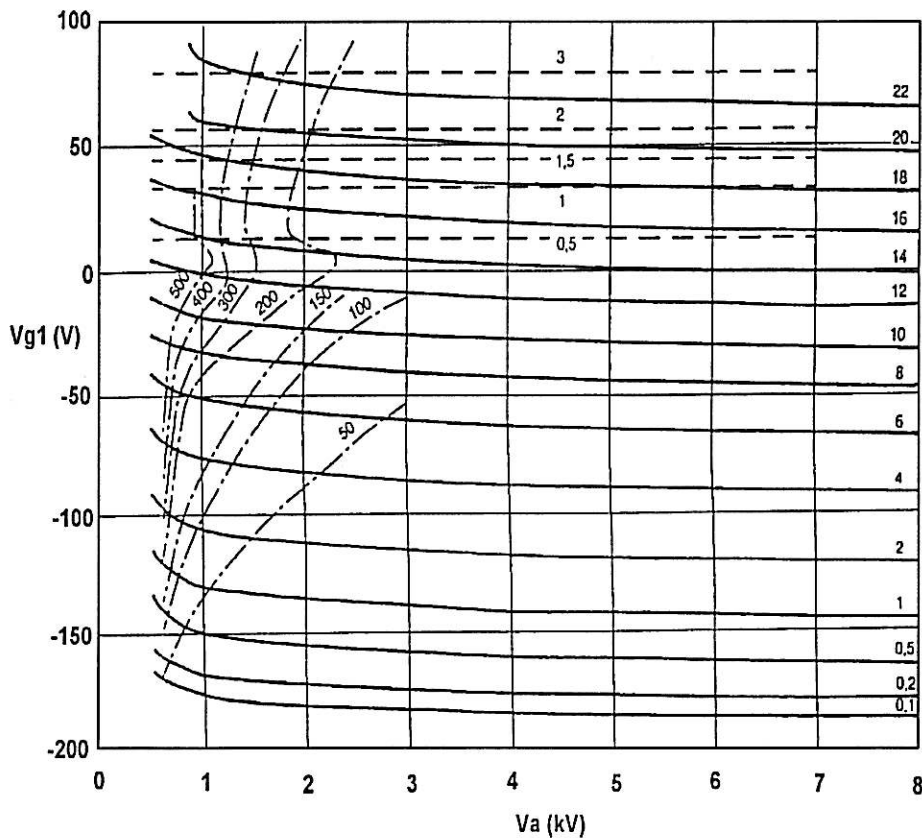
Type Forced air
 Maximum temperature on the tube
 (ceramic seals and electrode terminals) 300 °C

Absolute Ratings

Frequency 1000 MHz
 Direct anode voltage 7.5 kV
 Direct control grid voltage -200 V
 Direct screen grid voltage 900 V
 Peak cathode current 22 A
 Direct anode current 5.5 A
 Anode dissipation 25 kW
 Control grid dissipation 50 W
 Screen grid dissipation 120 W

Vg2 = 800 V

—— Ia (A)
 - - - - Ig1 (A)
 - · - · - Ig2 (mA)





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