

VKP-7958A Klystron

CPI Microwave Power Products (MPP) offers super-power klystrons for particle accelerator applications. Typical performance for these devices are operating frequencies of 350 to 700 MHz and output power up to 1.3 MW CW. The VKP-7958A is a 500 MHz, 800 kW CW klystron developed for DESY.

Key Features

- Electron gun with modulating anode for beam current adjustment
- 6-cavity rf circuit, including one 2nd harmonic cavity for enhanced efficiency
- Single coaxial output window
- Air insulation for electron gun (HV Enclosure not shown in photo)

Typical Operating Parameters

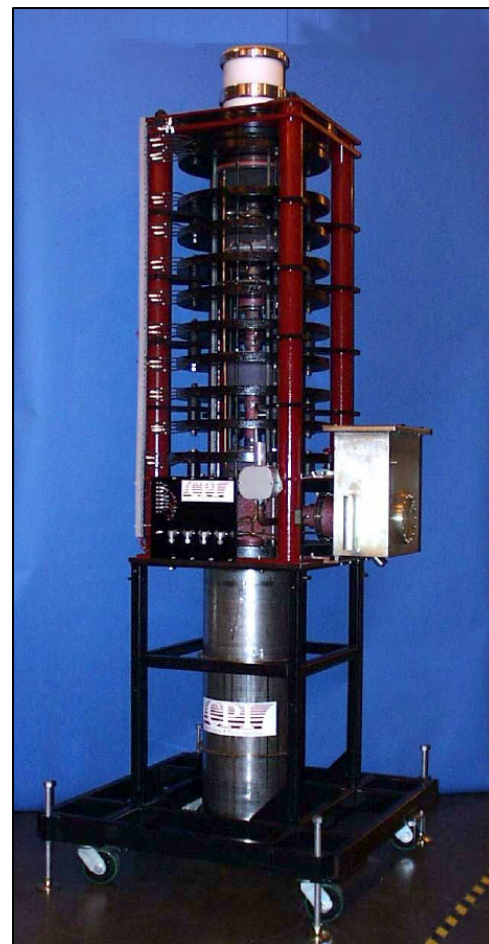
Power Output	800	kWatts (min)
Beam Voltage	74	kV (max)
Beam Current	18	A (max)
Mod Anode Voltage	55	kV
Frequency	499.67	MHz
1dB Bandwidth	± 1.0	MHz (min)
Saturated Gain	40	dB (min)
Efficiency	62	% (min)
Collector Coolant Flow	140 / 530	gpm / l/m
Body I Coolant Flow	4.4 / 1	gpm / m ³ /h
Body II Coolant Flow	6.6 / 1.5	gpm / m ³ /h
O/P Window Cooling (Air)	50 / 100	cfm / m ³ /h
Electron Gun Cooling (Air)	50 / 100	cfm / m ³ /h

Electromagnet:

Gun Coil Current	5	A
Gun Coil Voltage	8	V
Main Coil Current	14	A
Main Coil Voltage	180	V

Size with Accessories:

Length	60 / 1530	inches / mm
Width	54 / 1370	inches / mm
Height	157 / 4000	inches / mm
Weight	5,200 / 2,360	pounds / kg



For information on Super Power Klystrons and other CPI MPP products, visit our website at www.cpii.com/mpp, or contact:
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