VXP-7952 Series 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-7952 Series provides output power of 1 MW CW or peak for long pulse operation at 700 MHz.

Models Available

- VKP-7952A 1 MW CW at 700 MHz, features an electron gun with a modulating anode
- VKP-7952B 1 MW CW at 704 MHz, features a diode gun
- VKP-7952C 1 MW pulsed at 704 MHz, 2 msec rf pulse length with a diode gun

Key Features

- 6-cavity rf circuit, including one 2nd harmonic cavity for enhanced efficiency
- · Single coaxial output window
- · Collector capable of dissipating the full beam power

Typical Operating Parameters

1,000	kWatts (min)	Electromagnet:		
95	kV (max)	Gun Coil Current	20	Amps dc
21	A (max)	Gun Coil Voltage	8	Volts
75	kV	Main Coil Current	22	Amps dc
700	MHz	Main Coil Voltage	180	Volts
± 0.7	MHz (min	_		
40	dB (min)	Size with Accessories:		
65	% (min)	Length	186 / 472	inches / cm
380	gpm	Width	37 / 94	inches / cm
10	gpm	Height	60 / 152	inches / cm
10	gpm	Weight	5,200 / 2,360	Pounds / kg
35	cfm			
	95 21 75 700 ± 0.7 40 65 380 10	95 kV (max) 21 A (max) 75 kV 700 MHz ± 0.7 MHz (min 40 dB (min) 65 % (min) 380 gpm 10 gpm 10 gpm	95 kV (max) Gun Coil Current 21 A (max) Gun Coil Voltage 75 kV Main Coil Current 700 MHz Main Coil Voltage ± 0.7 MHz (min 40 dB (min) Size with Accessories: 65 % (min) Length 380 gpm Width 10 gpm Height 10 gpm Weight	95 kV (max) Gun Coil Current 20 21 A (max) Gun Coil Voltage 8 75 kV Main Coil Current 22 700 MHz Main Coil Voltage 180 ± 0.7 MHz (min 40 dB (min) Size with Accessories: 65 % (min) Length 186 / 472 380 gpm Width 37 / 94 10 gpm Height 60 / 152 10 gpm Weight 5,200 / 2,360



For information on Super Power Klystrons and other CPI/MPP products, visit our website at www.cpii.com/mpp, or contact: CPI/Microwave Products Division, 607 Hansen Way, Palo Alto, CA 94303
Telephone: 650-846-3900, Fax: 650-856-0705, Email: marketing@mpp.cpii.com



UKP-7952 Series Klystron

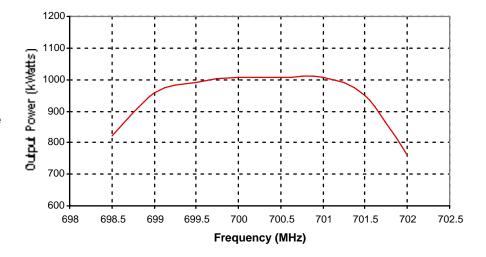


Typical Performance Characteristics

Measured data for the VKP-7952A serial number 001:

Beam voltage: 92 kV
Beam current: 16.7 A
Mod Anode Voltage: 75 kV

Frequency Response



Transfer Curve



For additional information on these klystrons and other CPI/MPP products, visit our website at www.cpii.com/mpp, or contact: CPI/Microwave Products Division, 811 Hansen Way, Palo Alto, CA 94303-0750 Telephone: 650-846-3900, Fax: 650-856-0705, Email: marketing@mpp.cpii.com

