

VKP-7953B Klystron

CPI Microwave Power Products (MPP) offers high power klystron for particle accelerator applications. The VKP-7953B is rated for 100 kW CW at 500 MHz.

Key Features

- Five Integral Cavities
- Electron gun with modulating anode for beam current adjustment
- Water cooled collector, capable of 150 psig inlet pressure.
- Water cooled coaxial to waveguide adapter.

Typical Operating Parameters

Power Output	100	kW CW
Heater Voltage	7.7	V (max)
Heater Current	20	A (max)
Beam Voltage	28.5	kVdc (max)
Beam Current	7.25	A (max)
Mod Anode Voltage	25	kVdc (max)
Body Current	100	mA (max)
Frequency	499.665	MHz
1dB Bandwidth	± 1.5	MHz (min)
Efficiency	50	% (min)
Collector Coolant Flow	60	gpm (min)
Body water Flow	2.5	gpm (min)
Electron Gun Cooling (air)	200	lb/hr (min)
Collector Hydrostatic Pressure	150	psig (max)
Body Hydrostatic Pressure	100	psig (max)

Electromagnet:

Series connected 5 coils electromagnet

Current	35	A (max)
Voltage	120	Vdc
Weight	500	lbs

Size:

Height	68	inches
Weight	440	lbs

RF Output Connector:

Mates to EIA 3 1/8 Inch, 50 ohm rotate able flange with water cooled output coupler to WR-1800 waveguide

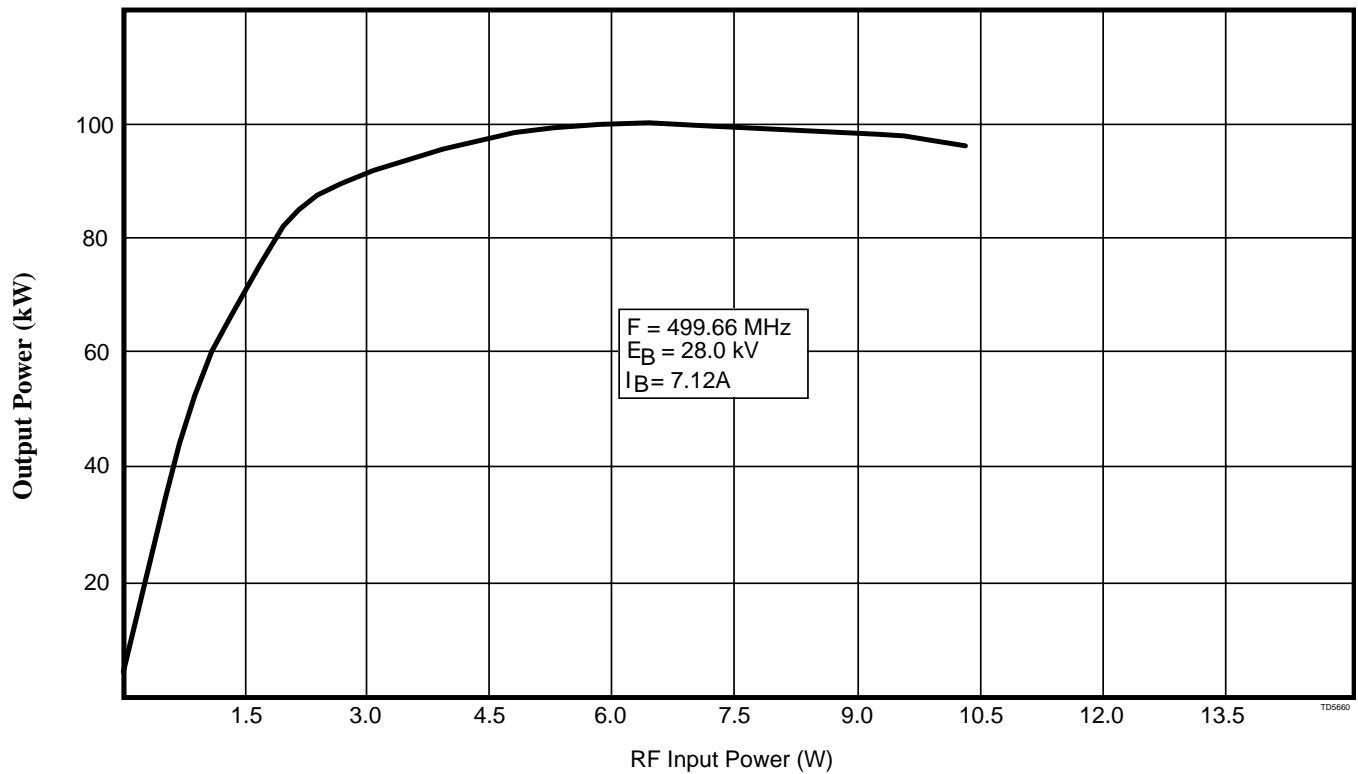
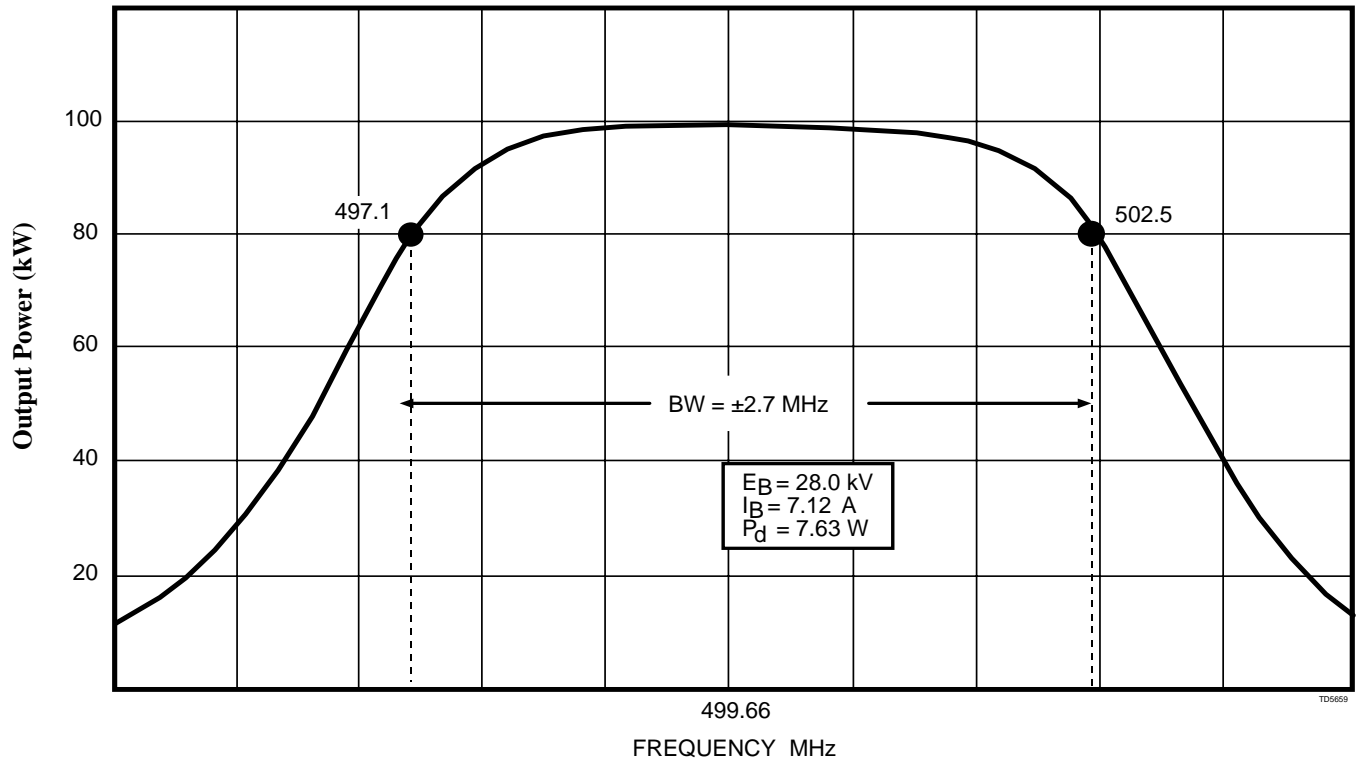


For information on Super Power Klystrons and other CPI MPP products, visit our website at www.cpii.com/mpp, or contact:

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