

C4000 Variable Power Combiner Series

Continuously Variable Manual VPC

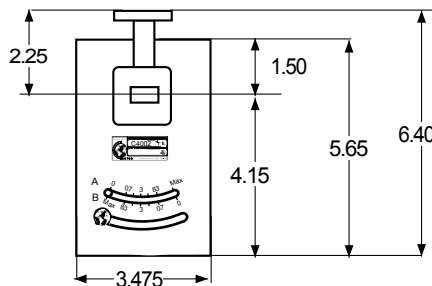
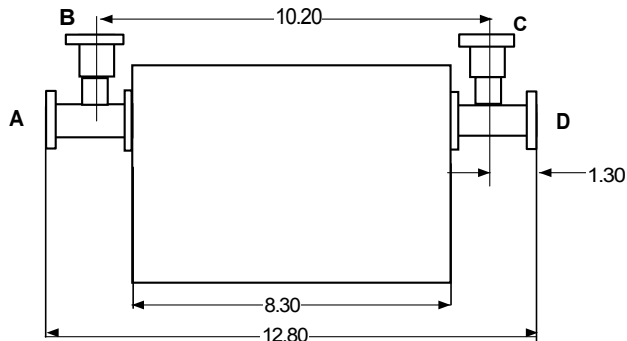
The VPC is a four port device. Two outputs with one of them generally terminated and two inputs. The VPC is generally used to send two high power signals at different frequencies and power levels to one common output. The manual VPC works as a dynamic variable power splitter. Thus the output power level of both output signals seem to be linked together in the sense that an increase in one output signal level corresponds to a decrease in the other output signal level.

This is accomplished by varying manually the position of the polarizer under full power conditions which makes the VPC the most versatile combiner in the industry. If you wish to know more about the theory of operation of the VPC, refer to Canteq's **Application note No. 51**. Canteq produces very compact VPCs in most standard bands with exceptional performance. Our Ku and C band VPCs have been delivered to very demanding and prestigious customers and they are installed around the globe.



KU Band VPC Electrical Specifications Model C4002

Frequency range:	14.0 - 14.5 GHz	Return Loss:	23 dB typ. Unpressurized
Insertion Loss:	0.2 dB max.	Isolation: A to B	26 dB Waveguide: WR 75
Isolation: D to A or D to B	28 dB	RF Power Handling:	1.0 kW per port



C Band VPC Electrical Specifications Model C4001

Frequency range:	5.85 - 6.45 GHz	Return Loss:	26 dB typ.
Insertion Loss:	0.18 dB max.	Isolation: A to B	33 dB
Isolation: D to A or D to B	36 dB	RF Power Handling:	3 kW max. per port
Waveguide output:	WR 137	Unpressurized	

