

VMDC-50K/110G-32-16-1.0-X

FEATURES

- ◆ Frequency Range, 50KHz~110GHz
- ◆ Low Insertion loss, 2.0dB@50KHz~110GHz Max.
- ◆ Low VSWR, 1.5:1@50KHz~110GHz Typ.
- ◆ The Voltage, 16V DC Max.

TYPICAL APPLICATIONS

- ◆ Optical Communications
- ◆ Satellite Communications
- ◆ Data Transmission
- ◆ High-Speed Pulse Experiments
- ◆ Research and Development
- ◆ Antenna Measurements

PRODUCT OVERVIEW

The VMDC-50K/110G-32-16-1.0-X is a compact, high performance DC-Block with a small footprint and a bandwidth of more than 110 GHz. It is RoHS compliant.

CONFIGURATIONS

- ◆ VMDC-50K/110G-32-16-1.0-A - 1.0mm male to 1.0mm female
- ◆ VMDC-50K/110G-32-16-1.0-B - 1.0mm female to 1.0mm female
- ◆ VMDC-50K/110G-32-16-1.0-C - 1.0mm male to 1.0mm male

There are three configurations of this DC-Block. The model VMDC-50K/110G-32-16-1.0-X is used as an example in this datasheet. For more information, please refer to the Physical Dimensions section.

ELECTRICAL SPECIFICATIONS

Parameter	Test Condition	Min.	Typ.	Max.	Unit
Frequency Range	-	0.05	-	110000	MHz
Nominal Impedance	-	-	50	-	Ω
Insertion Loss	50KHz~110GHz	-	1.5	2.0	dB
Input Reflection	<25GHz	-	-20	-18	dB
	<110GHz	-	-15	-11	dB
Group Delay Ripple	50KHz~110GHz	-	± 50	-	ps
Operating RF input Power	50KHz~110GHz	-	-	32	dBm
DC Voltage	-	-	-	16	V

MECHANICAL SPECIFICATIONS

Item	Spec.	Units
Connectors	1.0-male/1.0-female	-
Physical Dimensions(L*W*H)	17 * 7 * 10	mm
Material	Aluminum alloy & Copper	-
Surface Finish	Conductive oxidation & Gold-plated copper	-
Color	Aluminum color & Golden	-

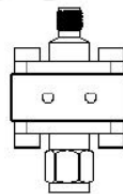
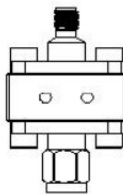
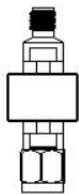
Note: Package Dimensions & Gross Weight are subject to the actual delivery.

OTHER SPECIFICATIONS

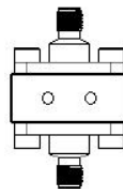
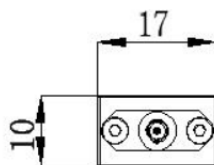
Item	Spec.	Units
Operating Temperature	+20 ~ +60	°C
Storage Temperature	-45 ~ +85	°C

OUTLINE DRAWING

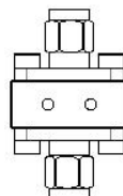
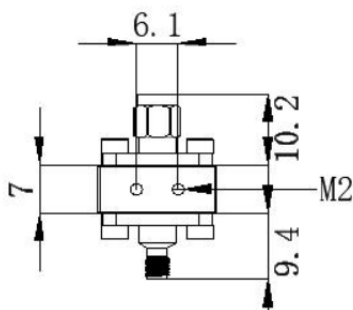
All Dimensions in mm



Version A



Version B



Version C