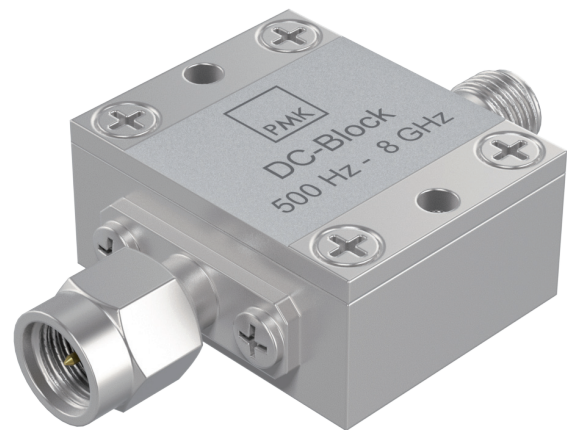




DCB500HZ-8GHZ

8 GHz Coaxial DC Blocker for DC Isolation

Ord.-No: DCB-500HZ-8GZ



A coaxial DC Block is used when DC isolation is required to protect sensitive RF system components like receivers or test equipment.

This DC Block allows frequencies between 500 Hz and 8 GHz to pass at simultaneous low insertion loss and excellent VSWR.

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RF-Specifications

DC Block Type	inner only	
Impedance	50 Ohm	
RF Input Power	1 W max.	
DC Input Voltage	50 V max.	
Frequency Range	500 Hz - 8 GHz	
Capacitance	4.7 μ F	
Group Delay	0.19 ns	
	typ.	max.
VSWR in / out		
@ 0.006 - 4000 MHz	1.15	1.3
@ 0.003 - 6000 MHz	1.25	1.5
Insertion Loss		
@ 0.003 - 4000 MHz	0.75 dB	1.0 dB
@ 0.002 - 6000 MHz	1.15 dB	1.4 dB

Connection

RF in- and outputs	2x SMA male / female (other connectors available on request)
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Environmental Specifications

Operating Temperatures	- 40 °C to + 85 °C
Reference Temperature of Specifications	+ 25 °C

General Specifications

Dimensions	20 mm x 25 mm x 11.5 mm
Casing	Milled aluminium enclosure
Weight	20 g

Scope of Delivery

- DC Block 500 Hz - 8 GHz
- Datasheet

Comments

Warranty	12 months
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DC Blocker DCB500HZ-8GHZ Typical Measurements

A coaxial DC Block is used when DC isolation is required to protect sensitive RF system components like receivers or test equipment.

This DC Block allows frequencies between 500 Hz and 8 GHz to pass at simultaneous low insertion loss and excellent VSWR.

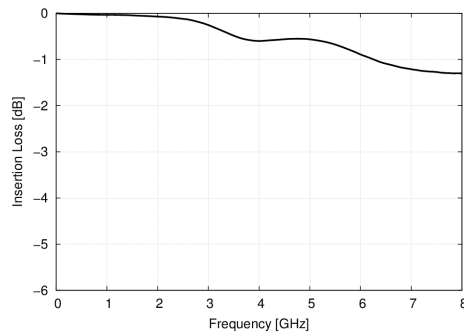


Fig. 1: Input port to output port insertion loss

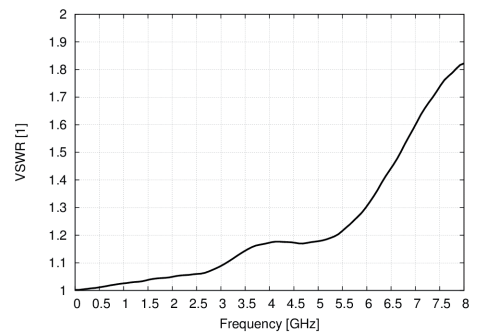


Fig. 2: VSWR for both ports (input and output)

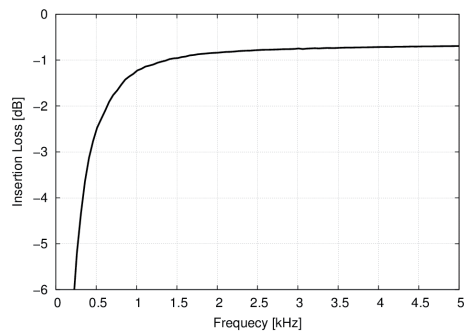


Fig. 3: Near DC Insertion Loss

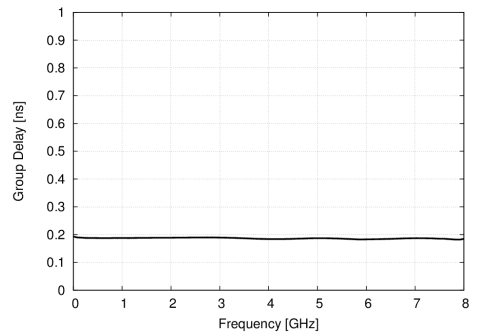
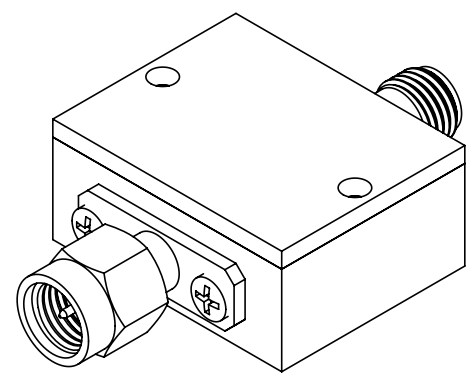
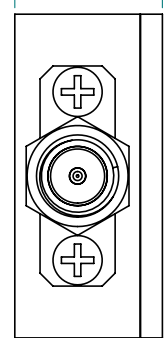


Fig. 4: Group Delay between output and input port

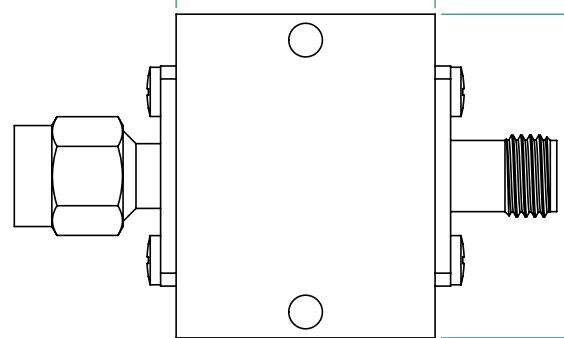
Dimensions:



[0,45in]
11,4mm



[0,79in]
20mm



[0,98in]
25mm



WEEE/ RoHS Directives

PMK electronic products are classified within the WEEE/ RoHS* category list as monitoring and control equipment (category 9). Category 9 products are exempt from the restrictions under the scope of the RoHS directive.

Your help and efforts are required to protect and keep clean our environment. Therefore return this electronic product at the end of its life either to the Service Department of PMK Mess- und Kommunikationstechnik GmbH or take care of separate WEEE collection and professional WEEE treatment yourself. Do not dispose as unsorted municipal waste.

* EC Directives:

WEEE Directive 2002/96/EC	–	Waste Electrical and Electronic Equipment
RoHS Directive 2002/95/EC	–	Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment

Safety Information

To avoid personal injury and to prevent fire or damage to this product or products connected to it, review and comply with the safety informations stated in the manual before using this product. Be aware that if you use this probe assembly in a manner not specified the protection this product provides may be impaired.

Only Qualified Personnel should use this Probe Assembly.

Manufacturer

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