

DC Block DCB-554-500Hz-6GHz

MTS-No.: 24315

Description

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 lets through frequencies between 500 Hz and 6 GHz at simultaneous low insertion loss and excellent VSWR.



Technical data:

1 RF-specifications:

1.1 DC Block type	Inner only		
1.2 Impedance	50 Ω		
1.3 RF input power	1 W max.		
1.4 DC input voltage	50 V max.		
1.5 Frequency range	500 Hz - 6 GHz		
1.6 Capacitance	4.7 μ F		
1.7 Group Delay	0.19 ns		
	min.	typ.	max.
1.8 VSWR in / out			
@ 0.006 - 4000 MHz		1.15	1.3
@ 0.003 - 6000 MHz		1.25	1.5
1.9 Insertion loss			
@ 0.003 - 4000 MHz		0.65 dB	1.0 dB
@ 0.002 - 6000 MHz		0.95 dB	1.4 dB

2 Connections:

2.1 RF-in- and outputs	2x SMA male / female (other connectors on request)
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3 General specifications:

3.1 Operating temperature	-40 °C - +85 °C
3.2 Reference temperature of specifications	+25 °C
3.3 Dimensions (without connections)	20 mm x 25 mm x 11.5 mm (LxWxH)
3.4 Case style	Milled aluminium enclosure
3.5 Colour	SurTec650 (Chrome alloy)
3.6 Weight	20 grams

4 Delivered parts:

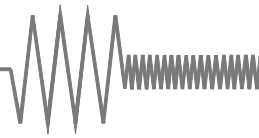
DCB-554-500Hz-6GHz
Datasheet

5 Comments:

Warranty	12 months
RoHS-compliant	Yes

6 Recommended accessories:

RF-cables



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Typical measurements:

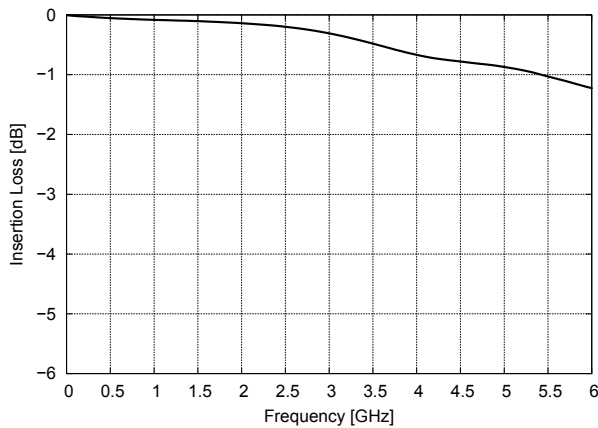


Fig. 1: Input port to output port insertion loss

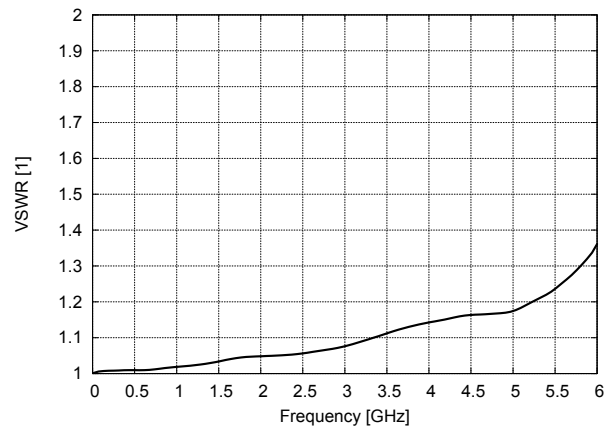


Fig. 2: VSWR for both ports (input and output)

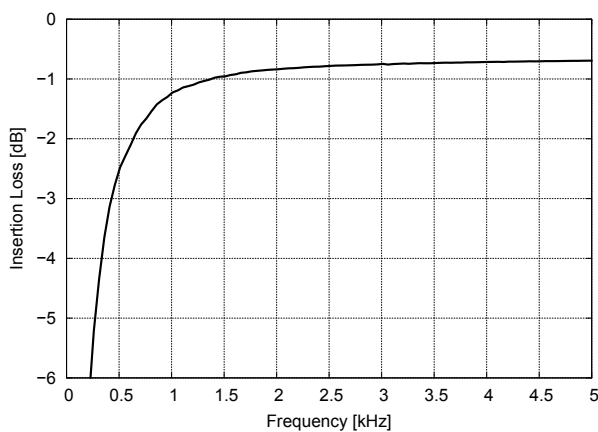


Fig. 3: Near DC insertion loss

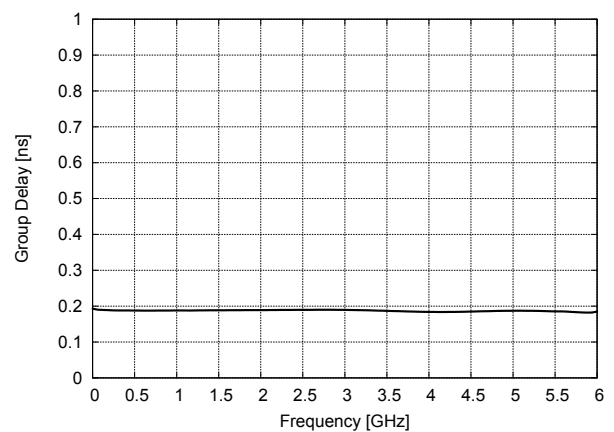
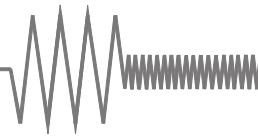


Fig. 4: Group delay between output and input port



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Views:

