

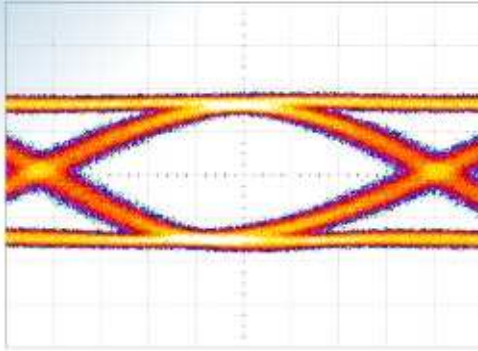


**SHF Communication Technologies AG**

Wilhelm-von-Siemens-Str. 23D • 12277 Berlin • Germany

Phone ++49 30 / 772 05 10 • Fax ++49 30 / 753 10 78

E-Mail: [sales@shf.de](mailto:sales@shf.de) • Web: <http://www.shf.de>



# Preliminary Datasheet

## SHF DCB110

### Broadband DC Block



Resonance free transmission performance from 50 kHz to over 110 GHz  
Innovative construction – Patent pending



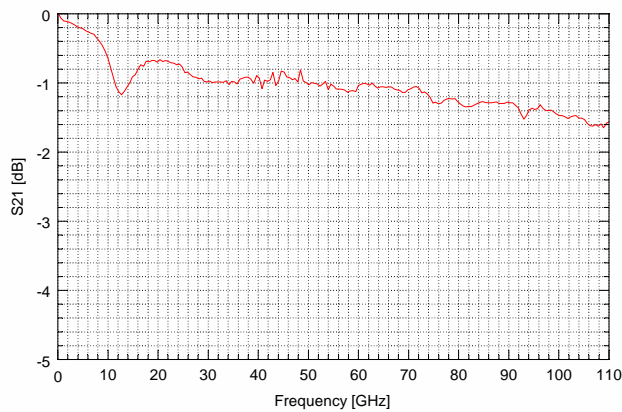


# Specifications – SHF DCB110

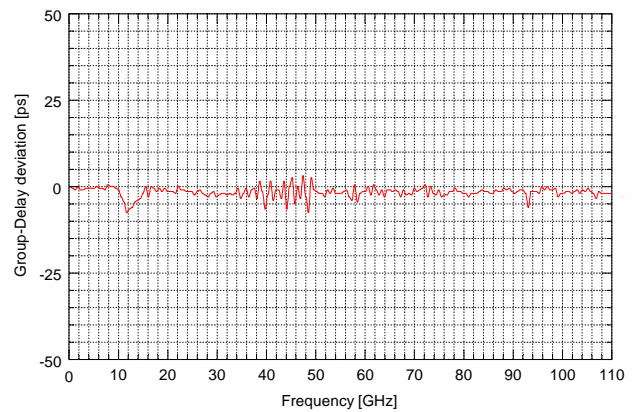
| Parameter                 | Symbol              | Unit | Min | Typ | Max | Conditions             |
|---------------------------|---------------------|------|-----|-----|-----|------------------------|
| High frequency 3 dB point | $f_{\text{HIGH}}$   | GHz  | 110 |     |     |                        |
| Low frequency 3 dB point  | $*f_{\text{LOW}}$   | kHz  |     |     | 50  | @0V DC Block. Voltage  |
|                           |                     |      |     |     | 150 | @10V DC Block. Voltage |
| Insertion loss            | $S_{21}$            | dB   |     | 1.5 |     | <70 GHz                |
| Input return loss         | $S_{11}$            | dB   |     |     | -15 | >40 MHz <10 GHz        |
|                           |                     |      |     |     | -10 | >10 GHz <110 GHz       |
| Maximum input power       | $P_{\text{max}}$    | dBm  |     |     | 30  |                        |
| DC Blocking voltage       | $*V_{\text{block}}$ | V    |     |     | 10  |                        |
| Input connector           |                     |      |     |     |     | 1mm (Male/Female)      |
| Output connector          |                     |      |     |     |     | 1mm (Male/Female)      |
| Dimensions                |                     | mm   |     |     |     | 33 x 17 x 8 (max)      |

\* other versions with  $f_{\text{LOW}} / V_{\text{block}}$  (16V/25V) available on request, please contact SHF

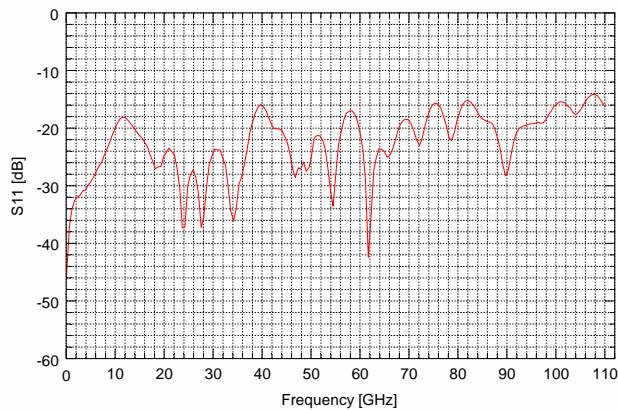
## Insertion loss



## Group delay deviation



## Return loss





## Mechanical drawing – SHF DCB110

The following combinations of connectors are available.

Please specify with your order.

