

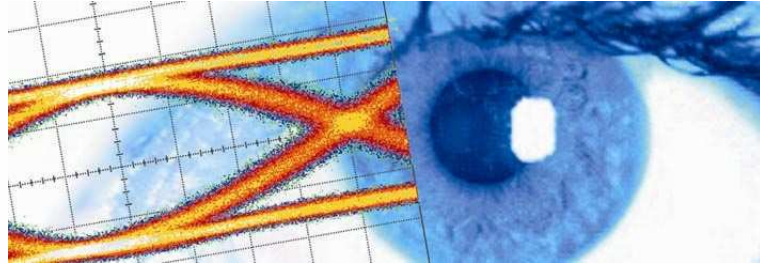


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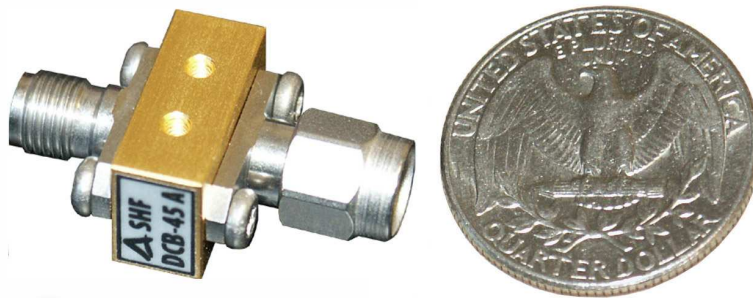
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# Datasheet

## SHF DCB45

### Broadband DC-Block



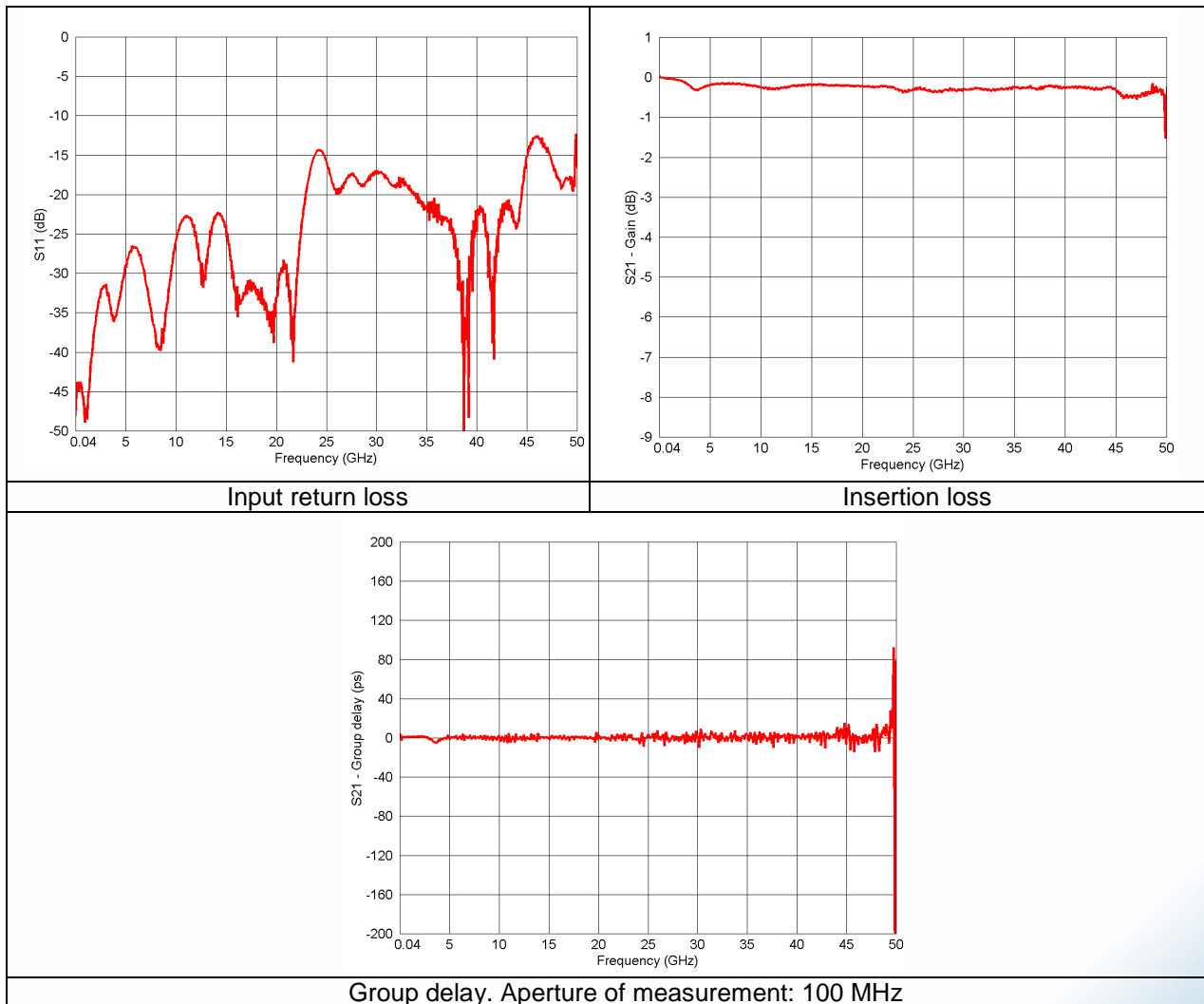
Resonance free transmission performance from 20 kHz to over 65 GHz  
Innovative construction – Patent pending



# Specifications – SHF DCB45

Parameter	Symbol	Unit	Min	Typ	Max	Conditions
High frequency 3 dB point	$f_{HIGH}$	GHz	45			
Low frequency 3 dB point	$f_{LOW}$	kHz			30	with 10 VDC applied
Insertion loss	$S_{21}$	dB		1		<45 GHz
Input return loss	$S_{11}$				-25 -18 -10	<2.5 GHz <20 GHz <45 GHz
DC Voltage	VDC	V			16	
Input power	$P_{in}$	dBm			30	
Rise/fall time	$t_r/t_f$	ps			5	20...80%
Input connector						K / 2.9mm
Output connector						K / 2.9mm
Dimensions		mm				17x10x7 excluding connectors

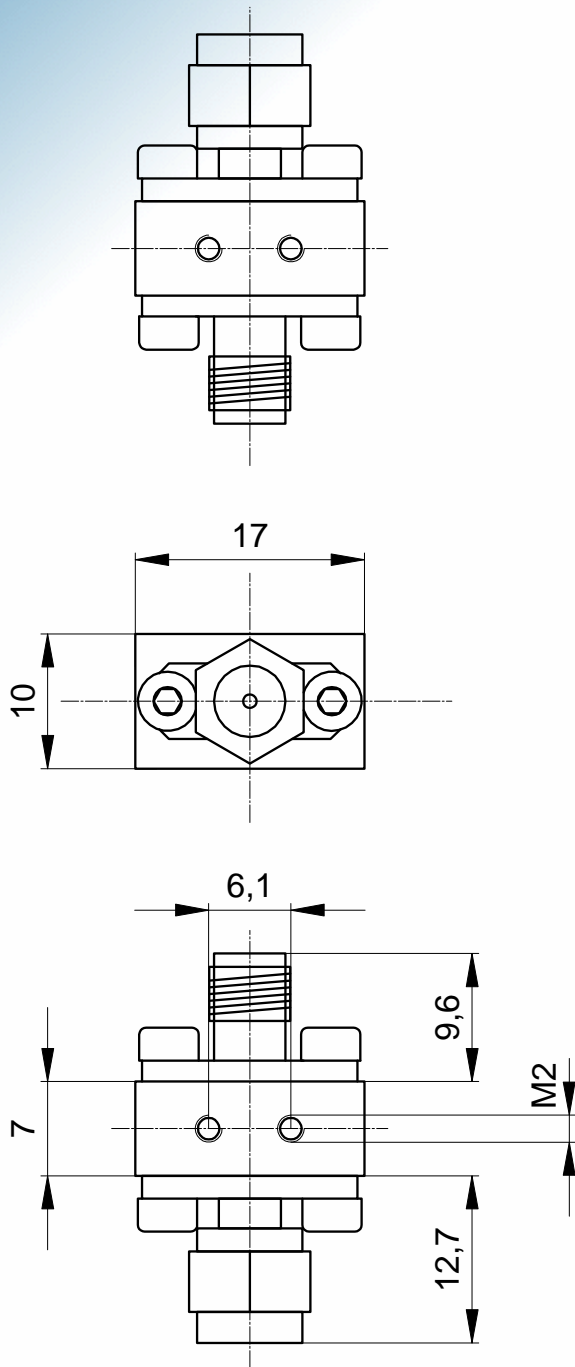
## S-parameters and group delay



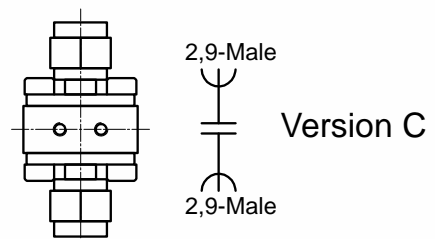
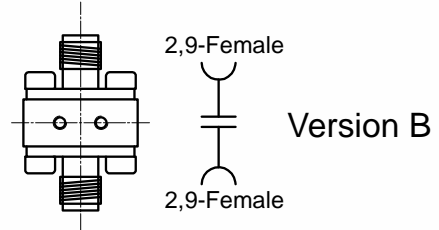
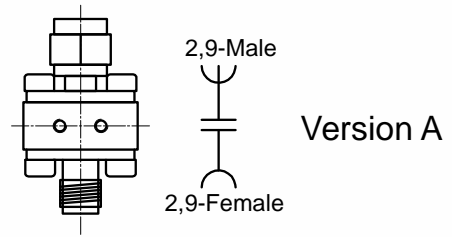
The structure at ~50GHz is due to moding of the K connectors



# Outline drawing



M1:1



All dimensions in mm