

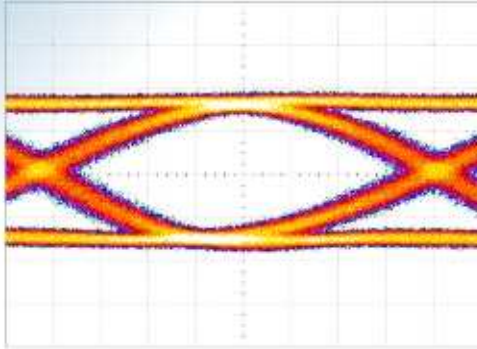


## SHF Communication Technologies AG

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# Datasheet

## SHF DCR65

### 50Ω DC Return



Resonance free transmission performance  
Innovative construction – Patent pending

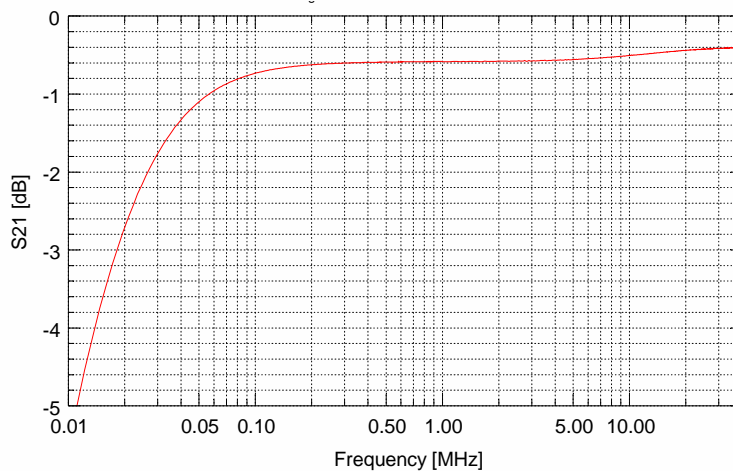
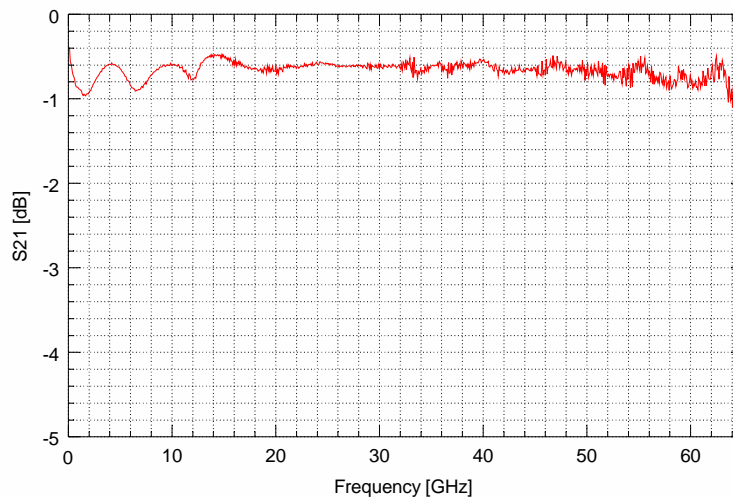




## Specifications – SHF DCR65

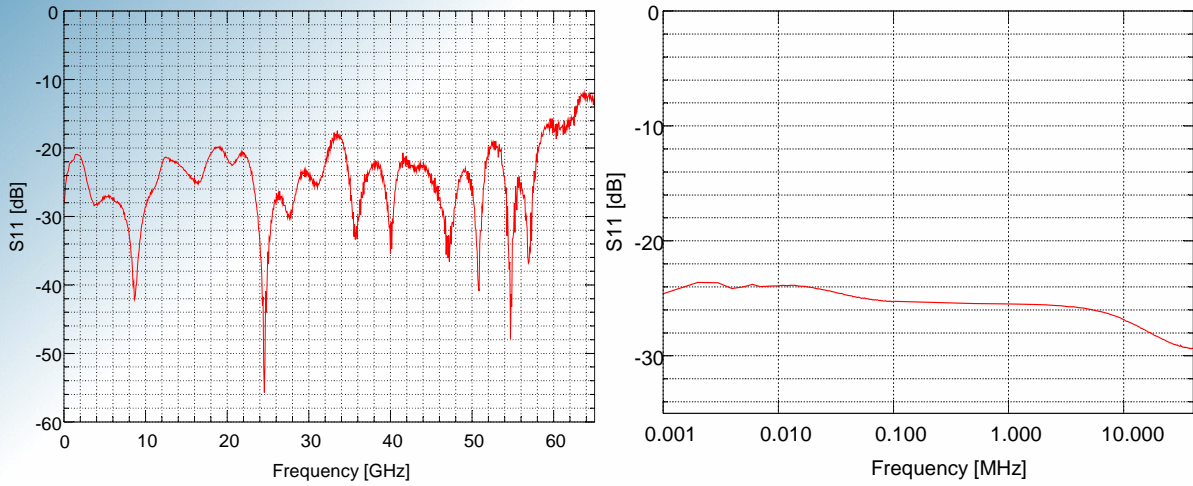
Parameter	Symbol	Unit	Min	Typ	Max	Conditions
High frequency 3 dB point	$f_{HIGH}$	GHz	65			
Low frequency 3 dB point	$f_{LOW}$	kHz			30	at 100mA
Insertion loss	$S_{21}$	dB			1.5	<60 GHz
Input return loss	$S_{11}$	dB			-17 -10	<25 GHz <65 GHz
Group delay		ps		20 40		<45 GHz <65 GHz aperture 100MHz
Maximum input power	$P_{max}$	dBm			30	
Rise time/Fall time	$t_r/t_f$	ps			5	10...90%
Maximum voltage across device	$V_{diff}$	V			16	
Input connector						V (1.85 mm)
Output connector						V (1.85 mm)
Dimensions (LxWxH)		mm				31x13x12.6

### Insertion loss

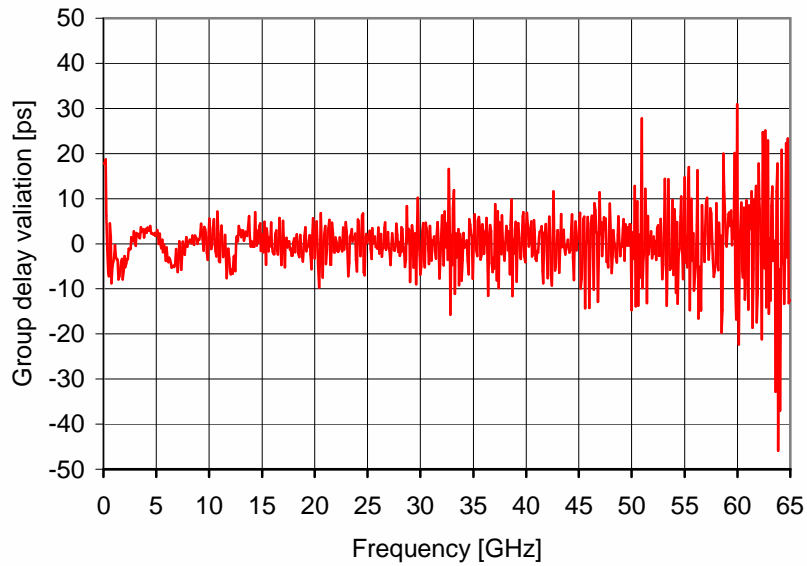




## Input return loss



## Group delay



Aperture of group delay measurement: 100MHz

## Phase response

