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# *SAW Components*

*Data Sheet B7803*

Data Sheet



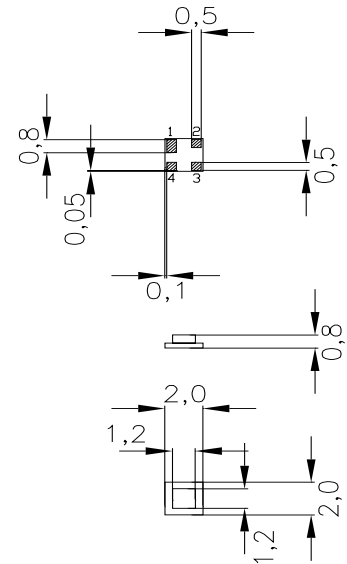
Chip sized SAW package DCS4A

**Features**

- Low-loss RF filter for W-CDMA system, transmit path
- Usable passband 60 MHz
- No matching network required for operation at 50  $\Omega$
- Ceramic package for **Surface Mounted** technology (**SMT**)

**Terminals**

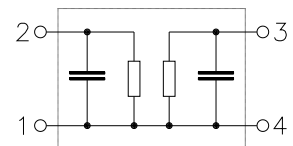
- Ni, gold-plated



Dimensions in mm, approx. weight 0,019 g

**Pin configuration**

2	Input
1	Input - ground
3	Output
4	Output - ground



Type	Ordering code	Marking and Package according to	Packing according to
B7803	B39202-B7803-A510	C61157-A7-A63	F61074-V8099-Z000

**Electrostatic Sensitive Device (ESD)**
**Maximum ratings**

Operable temperature range	$T$	- 20/+ 85	$^{\circ}\text{C}$	source impedance 50 $\Omega$
Storage temperature range	$T_{\text{stg}}$	- 40/+ 85	$^{\circ}\text{C}$	
DC voltage	$V_{\text{DC}}$	0	V	
Source power	$P_s$	10	dBm	

**Data Sheet**

**Characteristics**

Operating temperature range:  $T = 25^{\circ}\text{C}$   
 Terminating source impedance:  $Z_S = 50\ \Omega$   
 Terminating load impedance:  $Z_L = 50\ \Omega$

			min.	typ.	max.	
<b>Center frequency</b>	$f_c$		—	1950,0	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$		—	2,3	2,5	dB
		1920,0 ... 1980,0 MHz				
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$		—	0,5	0,7	dB
		1920,0 ... 1980,0 MHz				
<b>Amplitude ripple (p-p) per 5-MHz channel</b>	$\Delta\alpha_{\text{ch}}$		—	0,2	0,4	dB
		1920,0 ... 1980,0 MHz				
<b>Input VSWR</b>			—	1,8	2,0	
		1920,0 ... 1980,0 MHz				
<b>Output VSWR</b>			—	1,8	2,0	
		1920,0 ... 1980,0 MHz				
<b>Attenuation</b>	$\alpha$					
		50,0 ... 1805,0 MHz	17,0	18,0	—	dB
		1805,0 ... 1880,0 MHz	17,0	20,0	—	dB
		2110,0 ... 2170,0 MHz	31,0	35,0	—	dB
		2170,0 ... 2500,0 MHz	25,0	27,0	—	dB
		2500,0 ... 2800,0 MHz	20,0	23,0	—	dB
		2800,0 ... 6000,0 MHz	12,0	15,0	—	dB

**Data Sheet**

**Characteristics**

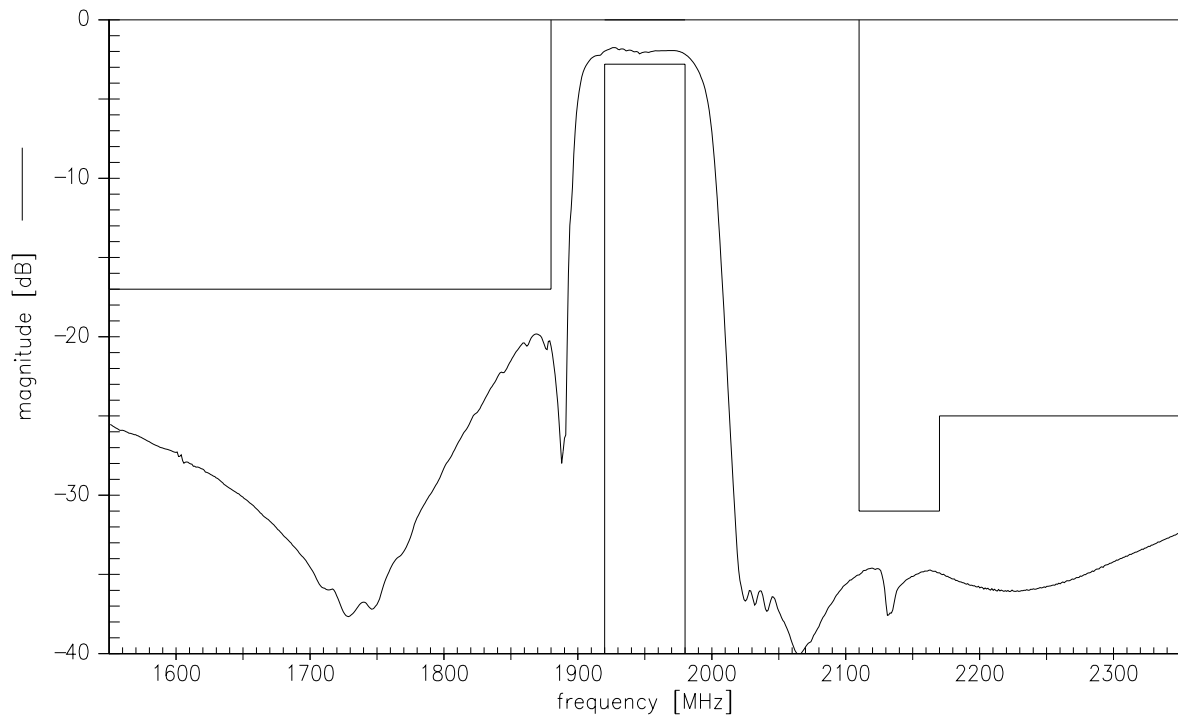
Operating temperature range:  $T = -20$  to  $+85^{\circ}\text{C}$   
 Terminating source impedance:  $Z_S = 50\ \Omega$   
 Terminating load impedance:  $Z_L = 50\ \Omega$

				<b>min.</b>	<b>typ.</b>	<b>max.</b>	
<b>Center frequency</b>		$f_c$		—	1950,0	—	MHz
<b>Maximum insertion attenuation</b>	1920,0 ...1980,0	MHz	$\alpha_{\max}$	—	2,5	2,8	dB
<b>Amplitude ripple (p-p)</b>	1920,0 ...1980,0	MHz	$\Delta\alpha$	—	0,7	1,0	dB
<b>Amplitude ripple (p-p) per 5-MHz channel</b>	1920,0 ...1980,0	MHz	$\Delta\alpha_{\text{ch}}$	—	0,4	0,5	dB
<b>Input VSWR</b>	1920,0 ...1980,0	MHz		—	1,8	2,0	
<b>Output VSWR</b>	1920,0 ...1980,0	MHz		—	1,8	2,0	
<b>Attenuation</b>			$\alpha$				
	50,0 ...1805,0	MHz		17,0	18,0	—	dB
	1805,0 ...1880,0	MHz		17,0	20,0	—	dB
	2110,0 ...2170,0	MHz		31,0	35,0	—	dB
	2170,0 ...2500,0	MHz		25,0	27,0	—	dB
	2500,0 ...2800,0	MHz		20,0	23,0	—	dB
	2800,0 ...6000,0	MHz		12,0	15,0	—	dB

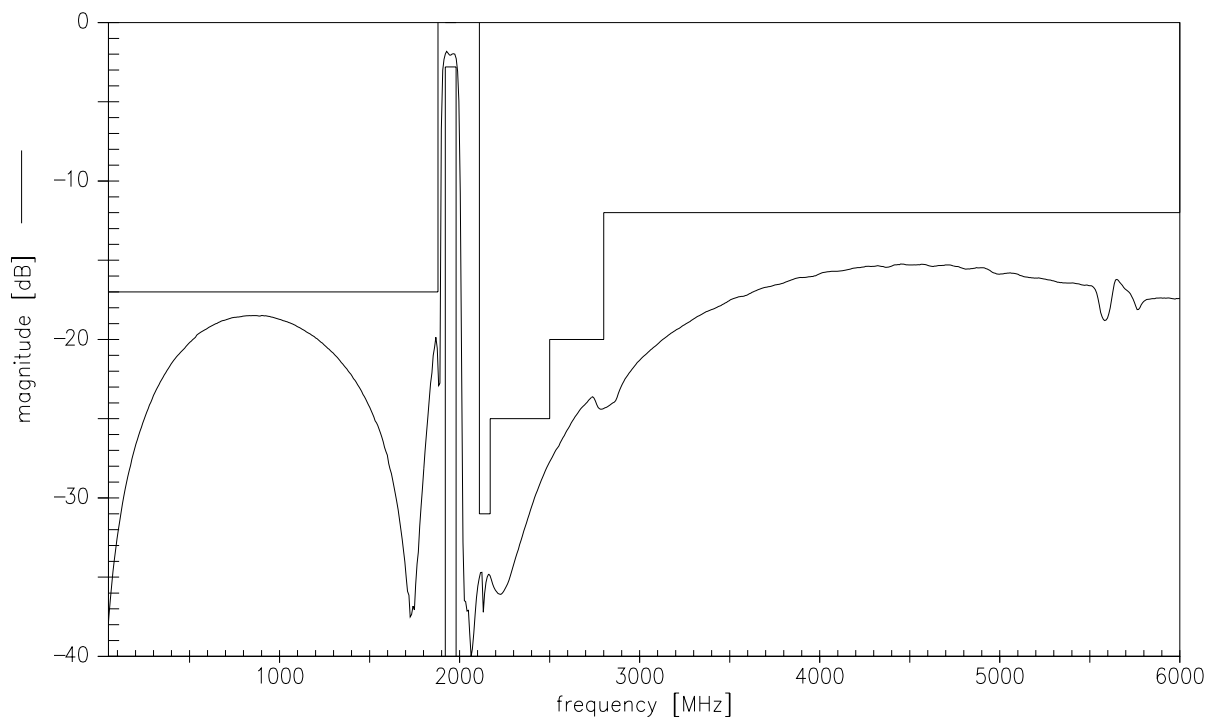
Data Sheet



Frequency response (narrow band)



Frequency response (broad band)



**Published by EPCOS AG****Surface Acoustic Wave Components Division, SAW MC WT  
P.O. Box 80 17 09, D-81617 München**

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