



# SAW Components

Data Sheet B7808





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Low Loss Filter for Mobile Communication

2140,0 MHz

Data Sheet



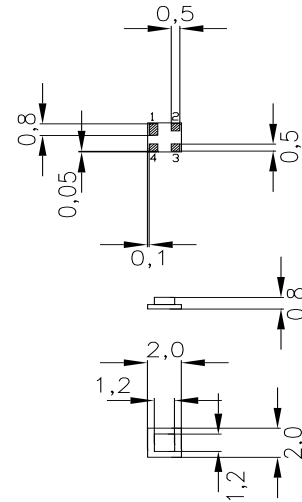
Chip sized SAW package DCS4A

**Features**

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

**Terminals**

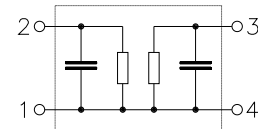
- Ni, gold-plated



Dimensions in mm, approx. weight 0,01 g

**Pin configuration**

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



Type	Ordering code	Marking and Package according to	Packing according to
B7808	B39212-B7808-A510	C61157-A7-A63	F61074-V8099-Z000

Electrostatic Sensitive Device (ESD)

**Maximum ratings**

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



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**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>			$f_c$	—	2140,0	—	MHz
<b>Maximum insertion attenuation</b>	2110,0 ... 2170,0		$\alpha_{\text{max}}$	—	2,5	3,0	dB
<b>Amplitude ripple (p-p)</b>	2110,0 ... 2170,0		$\Delta\alpha$	—	0,6	1,0	dB
<b>Amplitude ripple (p-p) per 5-MHz channel</b>	2110,0 ... 2170,0		$\Delta\alpha_{\text{ch}}$	—	0,3	0,5	dB
<b>VSWR</b>							
Input	2110,0 ... 2170,0	MHz		—	1,8	2,0	
Output	2110,0 ... 2170,0	MHz		—	1,8	2,0	
<b>Attenuation</b>			$\alpha$				
	0,0 ... 1730,0	MHz		15,0	18,0	—	dB
	1730,0 ... 1980,0	MHz		22,0	25,0	—	dB
	1980,0 ... 2050,0	MHz		17,0	20,0	—	dB
	2230,0 ... 2255,0	MHz		25,0	29,0	—	dB
	2255,0 ... 2490,0	MHz		25,0	30,0	—	dB
	2490,0 ... 2550,0	MHz		25,0	30,0	—	dB
	2550,0 ... 2930,0	MHz		22,0	24,0	—	dB
	2930,0 ... 6000,0	MHz		14,0	16,0	—	dB



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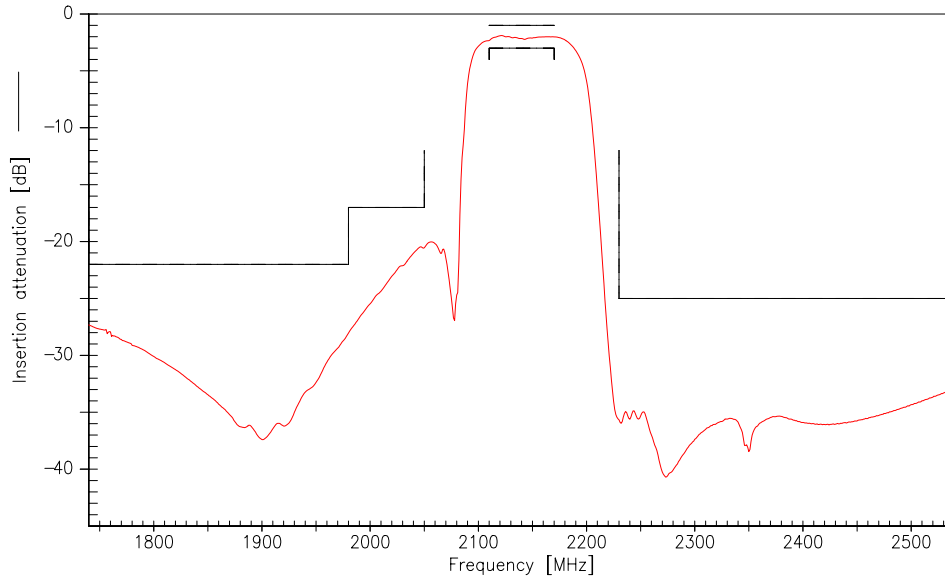
**Characteristics**

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

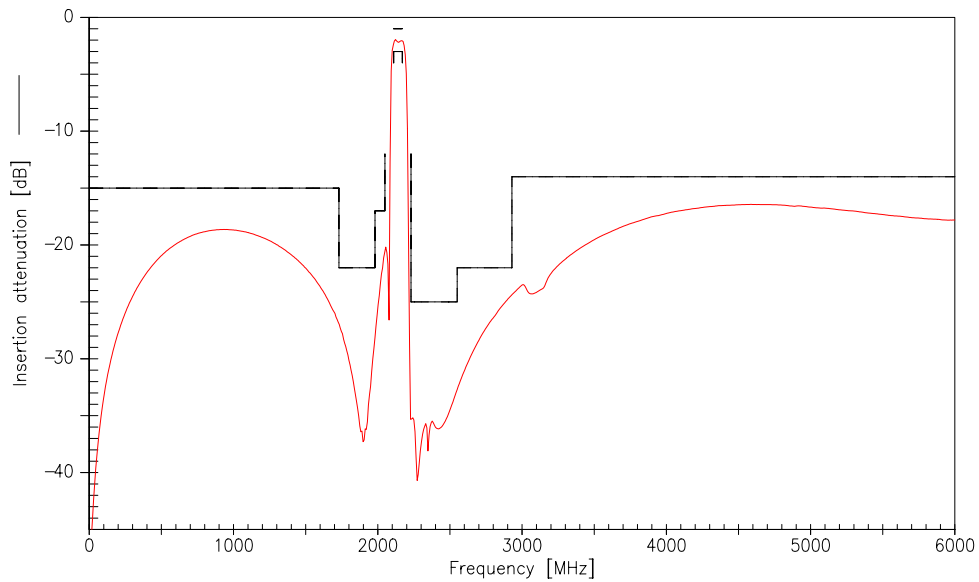
				min.	typ.	max.	
<b>Center frequency</b>			$f_c$	—	2140,0	—	MHz
<b>Maximum insertion attenuation</b>			$\alpha_{\max}$				
	2110,0 ... 2170,0		MHz	—	3,0	3,3	dB
<b>Amplitude ripple (p-p)</b>			$\Delta\alpha$				
	2110,0 ... 2170,0		MHz	—	0,9	1,2	dB
<b>Amplitude ripple (p-p) per 5-MHz channel</b>			$\Delta\alpha_{\text{ch}}$				
	2110,0 ... 2170,0		MHz	—	0,5	0,8	dB
<b>VSWR</b>							
	Input	2110,0 ... 2170,0	MHz	—	2,0	2,2	
	Output	2110,0 ... 2170,0	MHz	—	2,0	2,2	
<b>Attenuation</b>			$\alpha$				
	0,0 ... 1730,0		MHz	15,0	18,0	—	dB
	1730,0 ... 1980,0		MHz	22,0	25,0	—	dB
	1980,0 ... 2050,0		MHz	17,0	20,0	—	dB
	2230,0 ... 2255,0		MHz	25,0	29,0	—	dB
	2255,0 ... 2490,0		MHz	25,0	30,0	—	dB
	2490,0 ... 2550,0		MHz	25,0	30,0	—	dB
	2550,0 ... 2930,0		MHz	22,0	24,0	—	dB
	2930,0 ... 6000,0		MHz	14,0	16,0	—	dB



Frequency response (narrow band)



Frequency response (wide band)





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