



SAW Components

Data Sheet B7808

Data Sheet

An abstract, grayscale graphic featuring a large, stylized, and slightly blurred "EPCOS" logo. The logo is set against a background of curved, overlapping bands and a faint world map, creating a sense of global connectivity and technological advancement.



SAW Components

B7808

Low Loss Filter for Mobile Communication

2140,0 MHz

Data Sheet



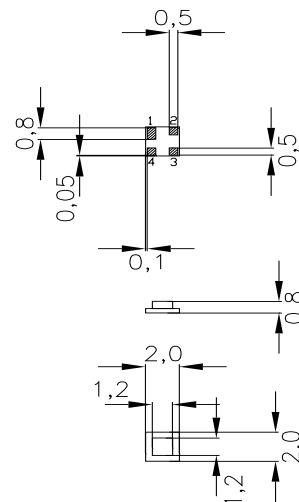
Chip sized SAW package DCS4A

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

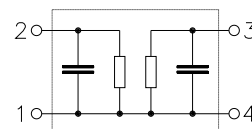
- Ni, gold-plated



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	$^{\circ}\text{C}$	
Storage temperature range	T_{stg}	- 40/+ 85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
Source power	P_{s}	10	dBm	source impedance 50 Ω



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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.	
Center frequency	f_c			—	2140,0	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$	2110,0 ... 2170,0	MHz	—	2,5	3,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$	2110,0 ... 2170,0	MHz	—	0,6	1,0	dB
Amplitude ripple (p-p) per 5-MHz channel	$\Delta\alpha_{\text{ch}}$	2110,0 ... 2170,0	MHz	—	0,3	0,5	dB
VSWR							
Input		2110,0 ... 2170,0	MHz	—	1,8	2,0	
Output		2110,0 ... 2170,0	MHz	—	1,8	2,0	
Attenuation	α						
		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.	
Center frequency	f_c			—	2140,0	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$						
	2110,0 ... 2170,0	MHz		—	3,0	3,3	dB
Amplitude ripple (p-p)	$\Delta\alpha$						
	2110,0 ... 2170,0	MHz		—	0,9	1,2	dB
Amplitude ripple (p-p) per 5-MHz channel	$\Delta\alpha_{\text{ch}}$						
	2110,0 ... 2170,0	MHz		—	0,5	0,8	dB
VSWR							
Input	2110,0 ... 2170,0	MHz		—	2,0	2,2	
Output	2110,0 ... 2170,0	MHz		—	2,0	2,2	
Attenuation	α						
	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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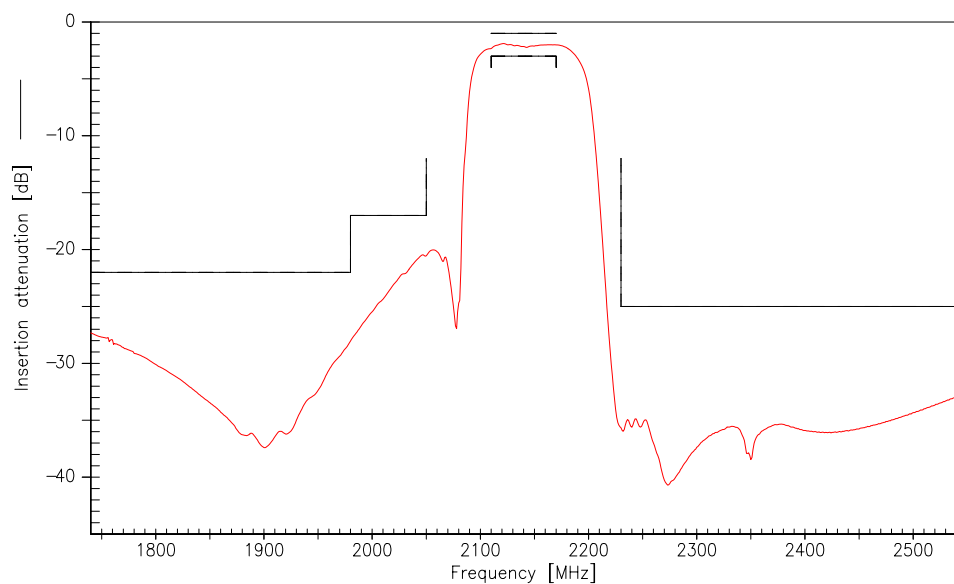
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2140,0 MHz

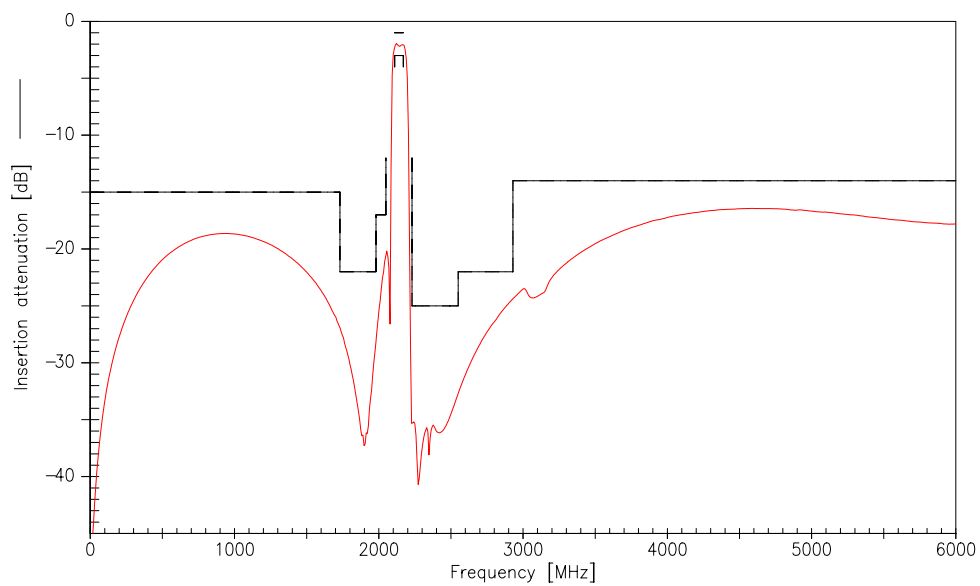
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Frequency response (narrow band)



Frequency response (wide band)





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