EPCOS

SAW Components

Data Sheet B7808

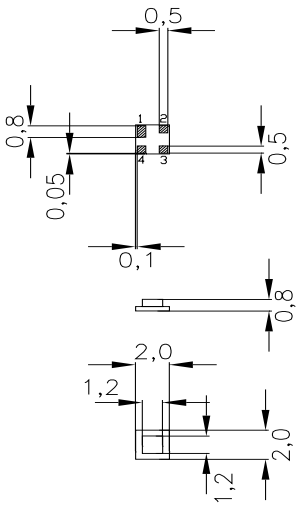
Chip sized SAW package DCS4A

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 **S**urface **M**ounted technology (**SMT**)

Terminals

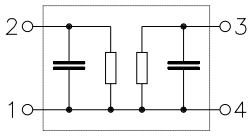
- Ni, gold-plated



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 **S**ensitive **D**evice (**ESD**)

Maximum ratings

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

Data Sheet SMD

Characteristics

Operating temperature range: T = 25˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

				min.	typ.	max.	
Center frequency			f_c	—	2140,0	—	MHz
Maximum insertion attenuation			α_{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**			$\Delta\alpha_{ch}$				
	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

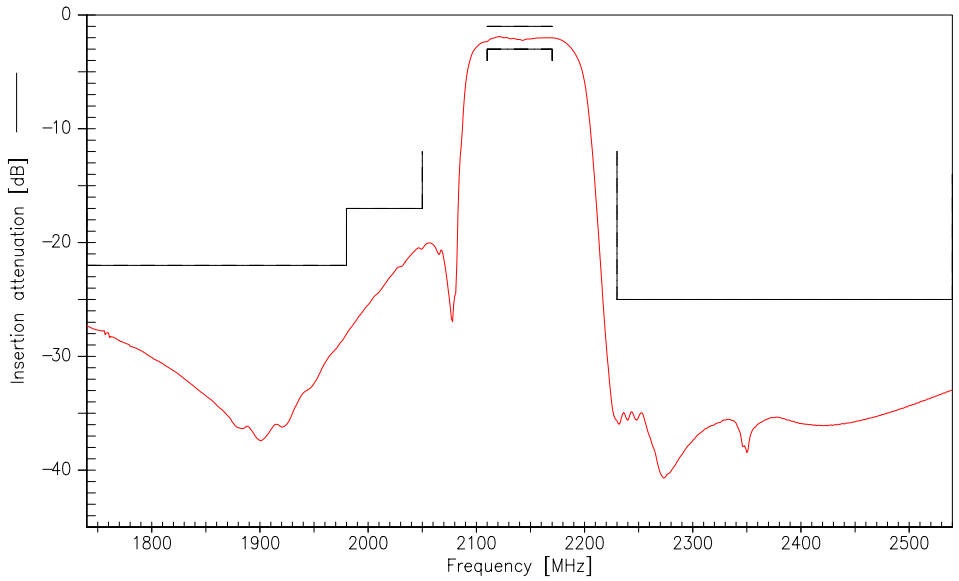
Data Sheet SMD

Characteristics

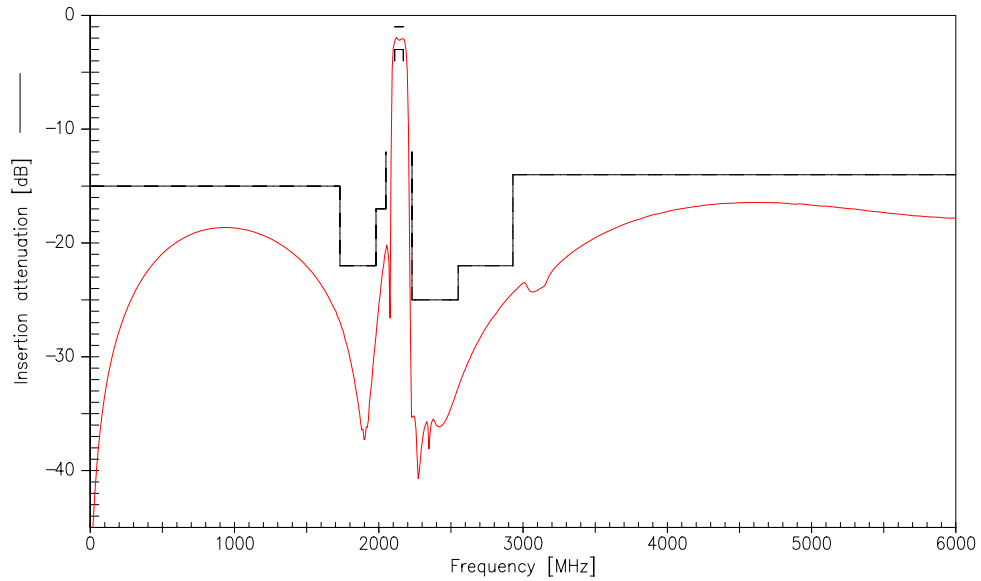
Operating temperature range: T = -20 to +85°C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

				min.	typ.	max.	
Center frequency			f_c	—	2140,0	—	MHz
Maximum insertion attenuation			α_{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**			$\Delta\alpha_{ch}$				
	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

Frequency response (narrow band)



Frequency response (wide band)



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Corporate Communications, P.O. Box 80 17 09, 81617 Munich, GERMANY
++49 89 636 09, FAX (0 89) 636-2 26 89

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