



SAW Components

Data Sheet B7808

Data Sheet

A large, stylized, 3D-rendered graphic of the EPCOS logo. The letters "EPCOS" are rendered in a bold, sans-serif font, appearing to be part of a curved, metallic-looking structure. The background is dark and textured, suggesting a globe or a complex surface.



SAW Components

B7808

Low Loss Filter for Mobile Communication

2140,0 MHz

Data Sheet



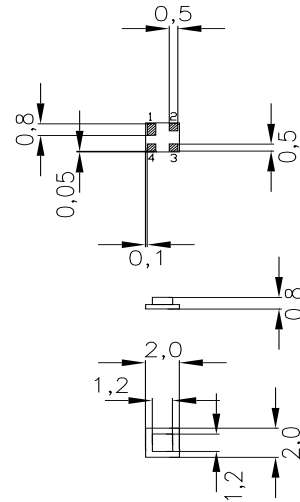
Chip sized SAW package DCS4A

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

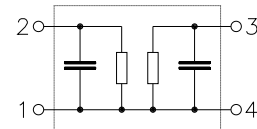
- Ni, gold-plated



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	°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.	
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			$\Delta\alpha_{\text{ch}}$				
	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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Low Loss Filter for Mobile Communication **2140,0 MHz**

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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: $Z_L = 50\ \Omega$

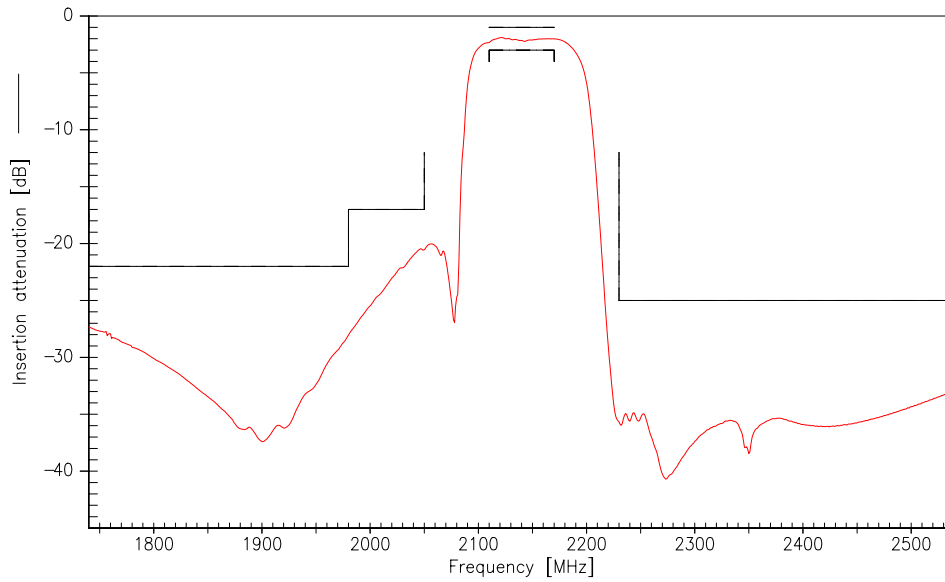
				min.	typ.	max.	
Center frequency			f_c	—	2140,0	—	MHz
Maximum insertion attenuation			α_{\max}				
	2110,0 ... 2170,0		MHz	—	3,0	3,3	dB
Amplitude ripple (p-p)			$\Delta\alpha$				
	2110,0 ... 2170,0		MHz	—	0,9	1,2	dB
Amplitude ripple (p-p) per 5-MHz channel			$\Delta\alpha_{\text{ch}}$				
	2110,0 ... 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



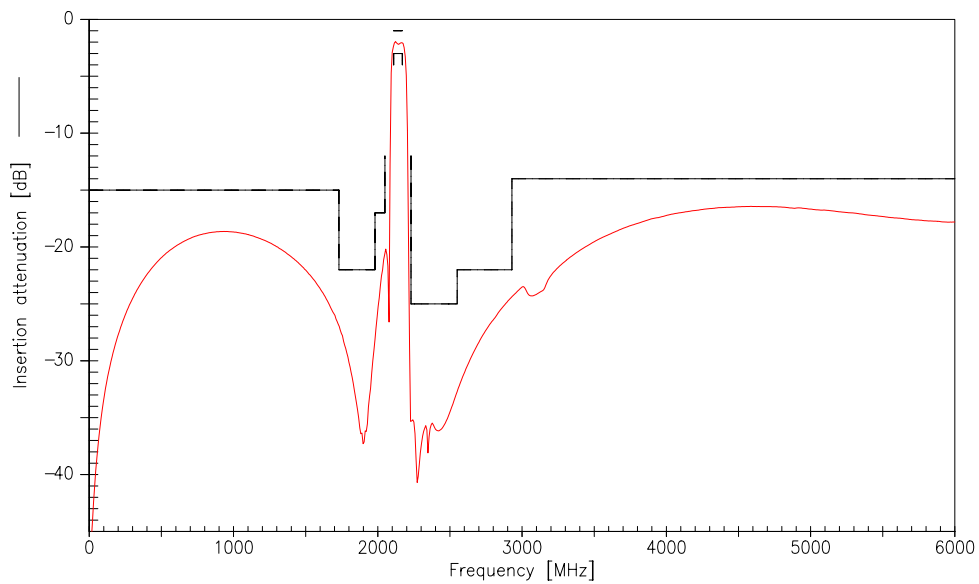
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Frequency response (narrow band)



Frequency response (wide band)





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