



SAW Components

Data Sheet B7803

Data Sheet

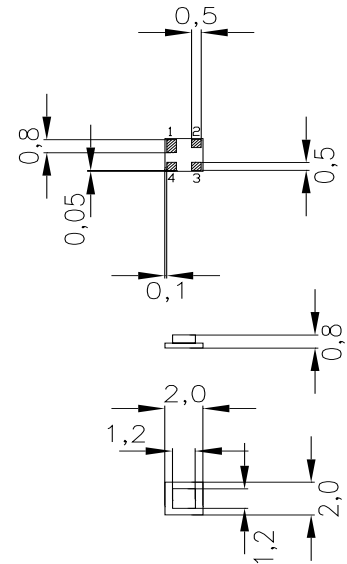
A large, stylized, 3D-rendered version of the EPCOS logo is shown in a dark, circular, glowing environment. The logo is tilted and appears to be floating or rotating. The word "EPCOS" is written in a large, white, sans-serif font, with the letters appearing to be part of a glowing, metallic structure. The background is dark with a subtle grid pattern and a faint map of the world.

Features

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

Terminals

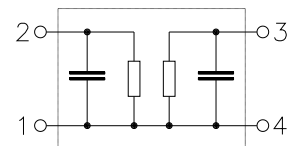
- Ni, gold-plated



Dimensions in mm, approx. weight 0,019 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 Ω
Storage temperature range	T_{stg}	- 40/+ 85	$^{\circ}\text{C}$	
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		—	1950,0	—	MHz
Maximum insertion attenuation	α_{\max}		—	2,3	2,5	dB
		1920,0 ... 1980,0 MHz				
Amplitude ripple (p-p)	$\Delta\alpha$		—	0,5	0,7	dB
		1920,0 ... 1980,0 MHz				
Amplitude ripple (p-p) per 5-MHz channel	$\Delta\alpha_{\text{ch}}$		—	0,2	0,4	dB
		1920,0 ... 1980,0 MHz				
Input VSWR			—	1,8	2,0	
		1920,0 ... 1980,0 MHz				
Output VSWR			—	1,8	2,0	
		1920,0 ... 1980,0 MHz				
Attenuation	α					
		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

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Characteristics

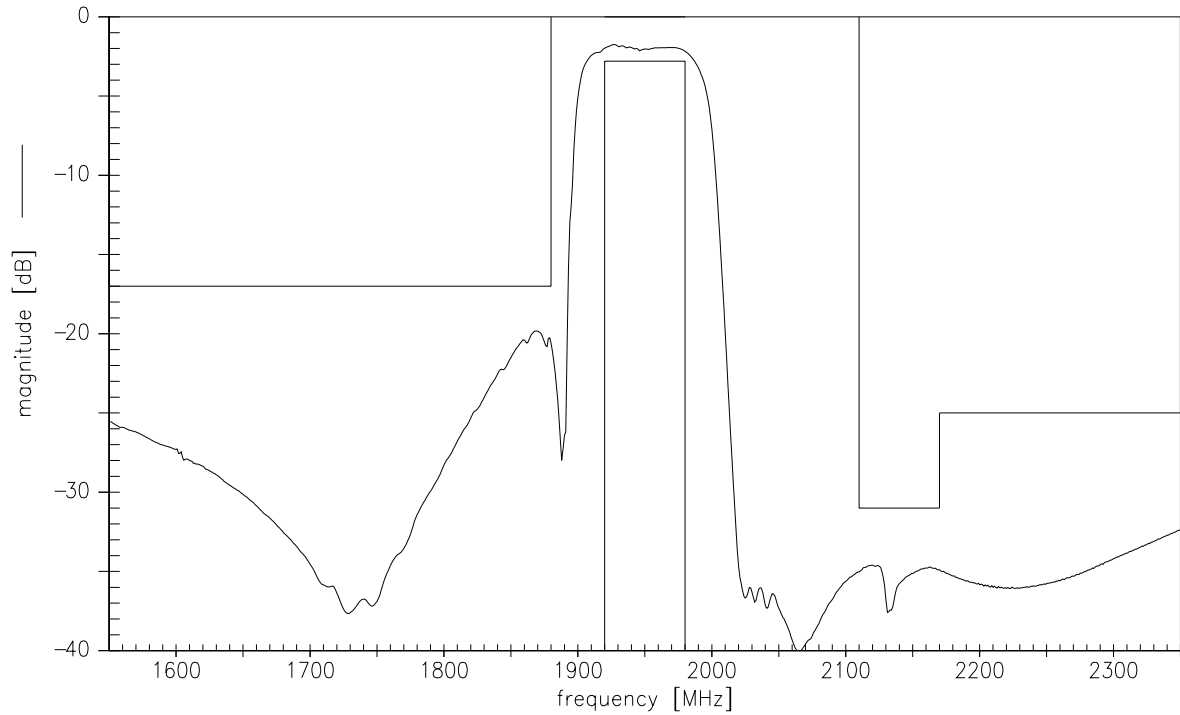
Operating temperature range: $T = -20$ to $+85^{\circ}\text{C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

			min.	typ.	max.	
Center frequency	f_c		—	1950,0	—	MHz
Maximum insertion attenuation	α_{\max}	1920,0 ...1980,0 MHz	—	2,5	2,8	dB
Amplitude ripple (p-p)	$\Delta\alpha$	1920,0 ...1980,0 MHz	—	0,7	1,0	dB
Amplitude ripple (p-p) per 5-MHz channel	$\Delta\alpha_{\text{ch}}$	1920,0 ...1980,0 MHz	—	0,4	0,5	dB
Input VSWR		1920,0 ...1980,0 MHz	—	1,8	2,0	
Output VSWR		1920,0 ...1980,0 MHz	—	1,8	2,0	
Attenuation	α					
		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

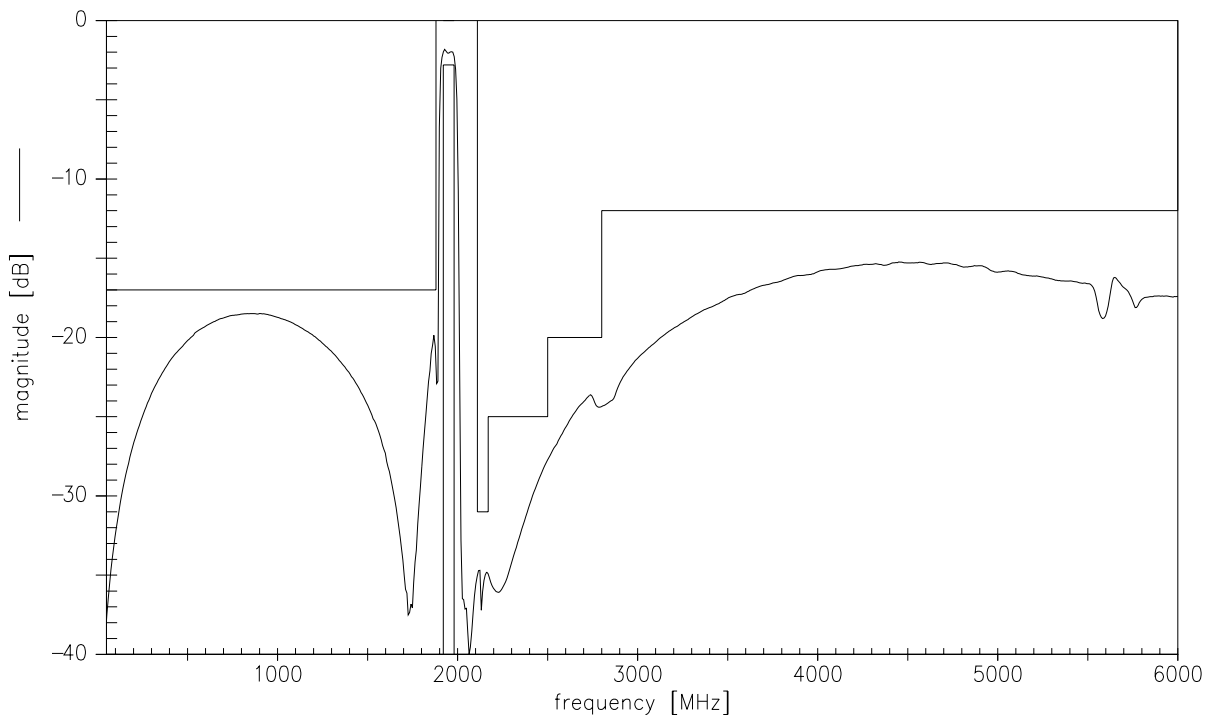
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Frequency response (narrow band)



Frequency response (broad band)





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