



SAW Components

Data Sheet B4126

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a bright, circular highlight in the center of each, giving them a three-dimensional appearance. They are set against a dark, textured background that includes a faint, glowing globe and circuitry patterns, suggesting a high-tech or electronic theme.



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Low-Loss Filter for Mobile Communication

1747,50 MHz

Data Sheet



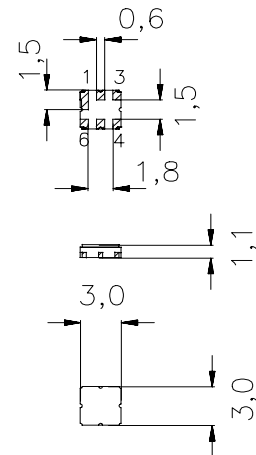
Ceramic Package DCC6C

Features

- Low-loss RF filter for mobile telephone PCN system, transmit path
- High selectivity
- Usable passband: 75 MHz
- No matching network required for operation at 50 Ω
- Ceramic Package for Surface Mounted Technology (SMT)
- RoHS compliant

Terminals

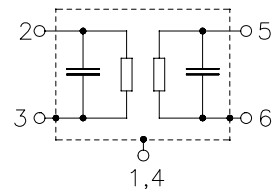
- Ni, gold-plated



Dimensions in mm, approx. weight 37mg

Pin configuration

2	Input
3	Input - ground
5	Output
6	Output - ground
1, 4	To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B4126	B39172-B4126-U410	C61157-A7-A67	F61074-V8168-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 40 / + 85	$^{\circ}\text{C}$	Machine Model, 10 pulses source and load impedance 50 Ω peak power of GSM signal, duty cycle 1 : 8 continuous wave
Storage temperature range	T_{stg}	- 40 / + 85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
ESD voltage	V_{ESD}^{*}	50*	V	
Input power max.	P_{IN}	5	dBm	
1710 ... 1785 MHz		5	dBm	
elsewhere		0	dBm	

* - acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses



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Characteristics

Operating temperature range: $T = 25 \pm 2^\circ \text{C}$
Terminating source impedance: $Z_S = 50 \Omega$
Terminating load impedance: $Z_L = 50 \Omega$

			min.	typ.	max.	
Center frequency	f_c		—	1747,5	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$					
	1710,0 ... 1785,0 MHz		—	3,5	4,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
	1710,0 ... 1785,0 MHz		—	2,0	2,5	dB
Input VSWR						
	1710,0 ... 1785,0 MHz		—	2,3	2,5	
Output VSWR						
	1710,0 ... 1785,0 MHz		—	2,3	2,5	
Attenuation	α					
	10,0 ... 1670,0 MHz		15,0	18,0	—	dB
	1670,0 ... 1690,0 MHz		10,0	25,0	—	dB
	1805,0 ... 1880,0 MHz		10,0	16,0	—	dB
	1880,0 ... 4500,0 MHz		15,0	21,0	—	dB
	4500,0 ... 5200,0 MHz		10,0	19,0	—	dB



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Characteristics

Operating temperature range: $T = -20$ to $+70^{\circ}\text{C}$
Terminating source impedance: $Z_S = 50\ \Omega$
Terminating load impedance: $Z_L = 50\ \Omega$

			min.	typ.	max.	
Center frequency	f_c		—	1747,5	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$					
	1710,0 ... 1785,0 MHz		—	3,5	4,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
	1710,0 ... 1785,0 MHz		—	2,0	2,5	dB
Input VSWR						
	1710,0 ... 1785,0 MHz		—	2,3	2,5	
Output VSWR						
	1710,0 ... 1785,0 MHz		—	2,3	2,5	
Attenuation	α					
	10,0 ... 1670,0 MHz		15,0	18,0	—	dB
	1670,0 ... 1690,0 MHz		6,0	17,0	—	dB
	1805,0 ... 1880,0 MHz		6,0	12,0	—	dB
	1880,0 ... 4500,0 MHz		15,0	21,0	—	dB
	4500,0 ... 5200,0 MHz		10,0	19,0	—	dB



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Characteristics

Operating temperature range: $T = -30$ 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		—	1747,5	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$					
	1710,0 ... 1785,0	MHz	—	3,5	4,4	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
	1710,0 ... 1785,0	MHz	—	2,0	2,9	dB
Input VSWR						
	1710,0 ... 1785,0	MHz	—	2,3	2,5	
Output VSWR						
	1710,0 ... 1785,0	MHz	—	2,3	2,5	
Attenuation	α					
	10,0 ... 1670,0	MHz	15,0	18,0	—	dB
	1670,0 ... 1690,0	MHz	6,0	17,0	—	dB
	1805,0 ... 1880,0	MHz	6,0	12,0	—	dB
	1880,0 ... 4500,0	MHz	15,0	21,0	—	dB
	4500,0 ... 5200,0	MHz	10,0	19,0	—	dB



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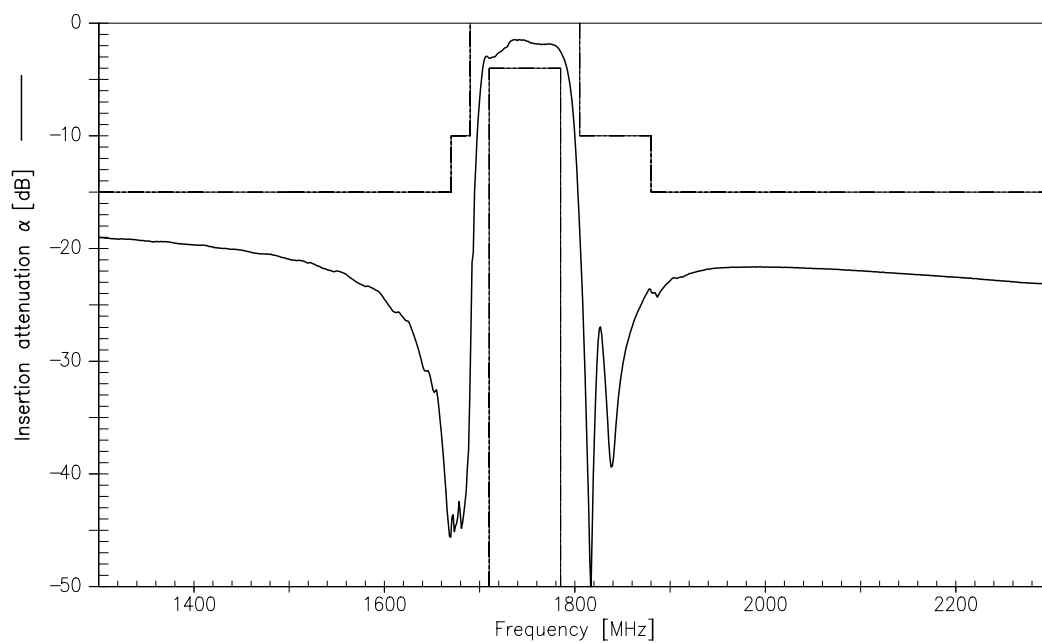
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1747,50 MHz

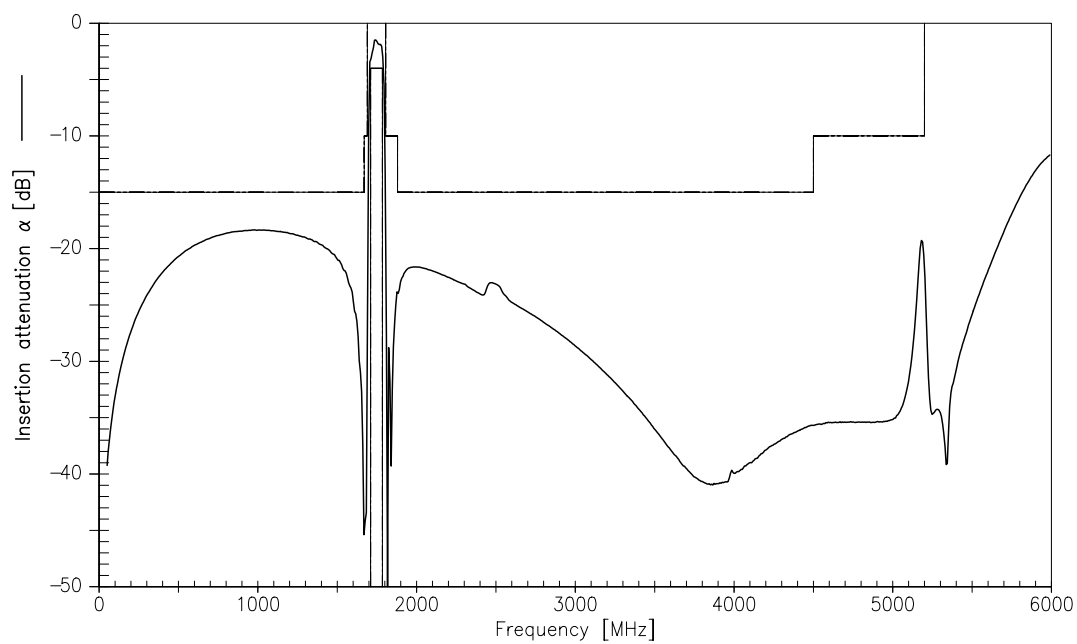
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Transfer function (spec for 25°C)



Transfer function (wideband)





SAW Components	B4126
Low-Loss Filter for Mobile Communication	1747,50 MHz
Data Sheet	SMD

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