



SAW Components

Data Sheet B4041

Data Sheet

An abstract, grayscale graphic featuring a globe with a grid pattern, overlaid with a large, stylized, and slightly blurred "EPCOS" logo. The logo is rendered in a light gray, almost white, color, giving it a three-dimensional appearance as if it's floating or attached to the globe. The background is dark and textured, with some light streaks and a sense of motion or depth.

EPCOS



SAW Components

B4041

Low-Loss Filter for Mobile Communication

2450,0 MHz

Data Sheet



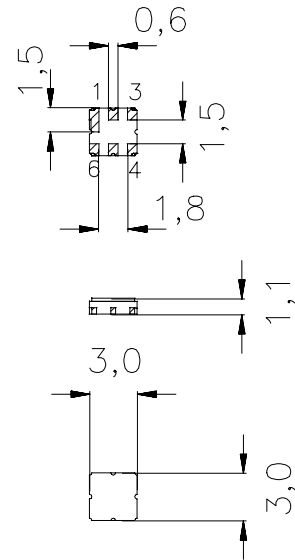
Features

- Low-loss RF filter for ISM 2450 MHz
- Low amplitude ripple
- Usable passband 97 MHz
- Package for Surface Mounted Technology (SMT)
- Ceramic SMD package

Terminals

- Gold-plated Ni

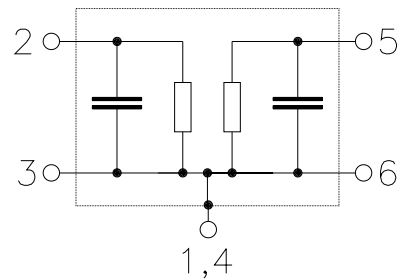
Ceramic package DCC6C



Dimensions in mm, approx. weight 0,037 g

Pin configuration

- | | |
|------------|------------------------|
| 2 | Input |
| 5 | Output |
| 1, 3, 4, 6 | Ground, to be grounded |



Type	Ordering code	Marking and Package according to	Packing according to
B4041	B39252-B4041-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operating temperature range	T	- 40/+ 85	°C	source impedance 50 Ω
Storage temperature range	T_{stg}	- 40/+ 85	°C	
DC voltage	V_{DC}	0	V	
Input Power max.	P_{IN}	7,5	dBm	



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Characteristics

Operating Temperature Range: $T = -40^{\circ}\text{C}$ to 85°C
Terminating source impedance: $Z_S = 50\Omega$
Terminating load impedance: $Z_L = 50\Omega$

		min.	typ.	max.	
Center frequency	f_C	—	2448,5	—	MHz
Maximum insertion attenuation	α_{\max}				
2400,0 ... 2497,0 MHz		—	2,9	4,0	dB
		—	2,6*	3,0*	dB
Amplitude ripple	$\Delta\alpha$				
2400,0 ... 2497,0 MHz		—	1,4	2,7	dB
Attenuation	α				
0,00 ... 1785,00 MHz		15	19	—	dB
1785,00 ... 2100,00 MHz		18	22	—	dB
2100,00 ... 2300,00 MHz		24	28	—	dB
2600,00 ... 2800,00 MHz		22	26	—	dB
2800,00 ... 3100,00 MHz		24	28	—	dB
3100,00 ... 4200,00 MHz		20	25	—	dB
4200,00 ... 5000,00 MHz		7	10	—	dB

* alternative operating temperature range ($T = -10^{\circ}\text{C}$ to 55°C) for indoor application



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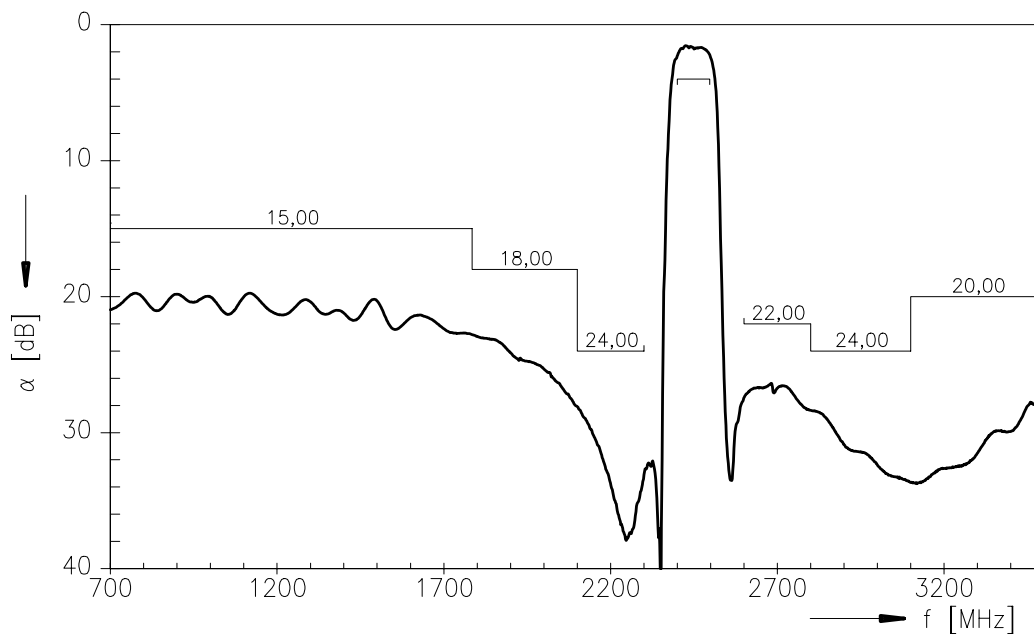
Low-Loss Filter for Mobile Communication

2450,0 MHz

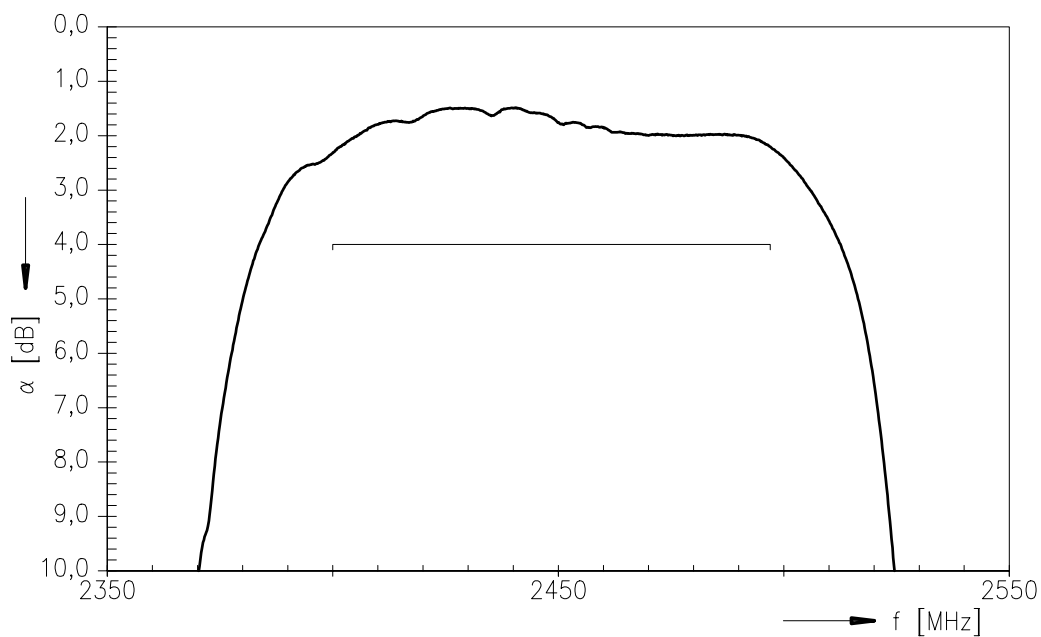
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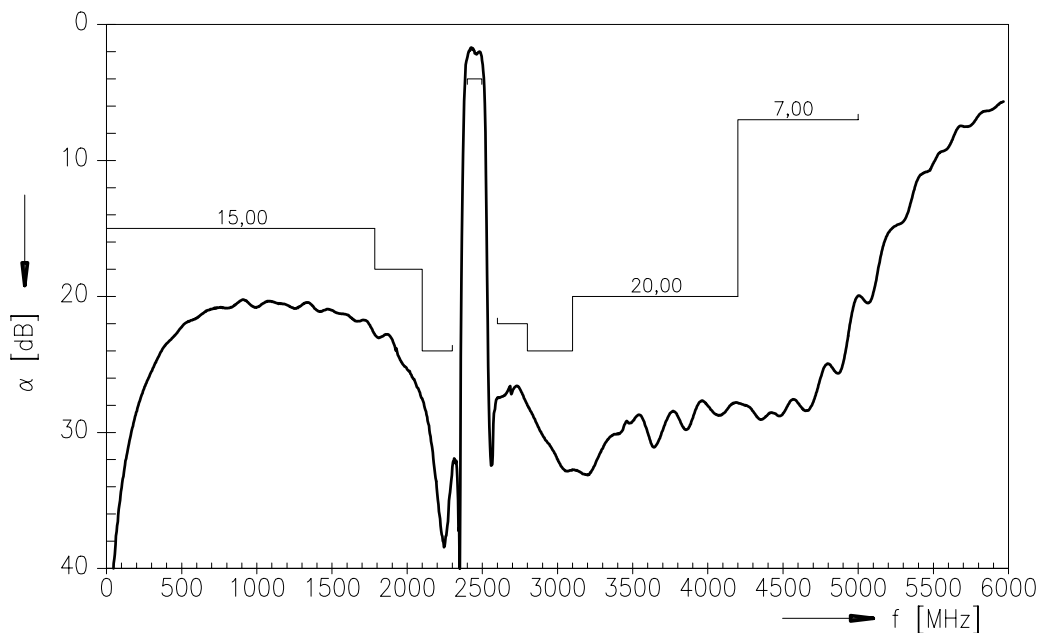


Transfer function



Transfer function (passband)



**SAW Components****B4041****Low-Loss Filter for Mobile Communication****2450,0 MHz****Data Sheet****Transfer function (wideband)****Published by EPCOS AG****Surface Acoustic Wave Components Division, OFW E MF****P.O. Box 80 17 09, D-81617 München**

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