



# SAW Components

Data Sheet B3678

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

B3678

## Low-Loss Filter

246,0 MHz

### Data Sheet

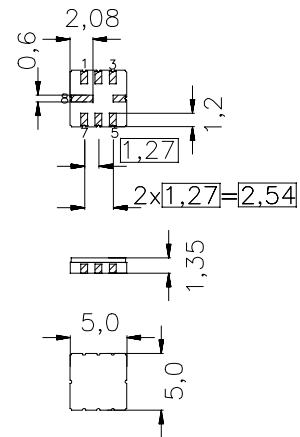
Ceramic package **QCC8C**

#### Features

- Low-loss IF filter
- Low insertion attenuation
- Low amplitude ripple
- Usable passband 1 MHz
- No matching network required for operation at 200  $\Omega$  (input) and 50  $\Omega$  (output)
- Balanced input, unbalanced output
- Ceramic package for **Surface Mounted Technology (SMT)**

#### Terminals

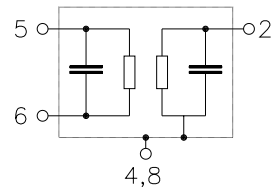
- Ni, gold-plated



Dimensions in mm, approx. weight 0,1 g

#### Pin configuration

5, 6	Balanced Input (200 $\Omega$ )
2	Output (50 $\Omega$ )
1	To be grounded
4, 8	Case ground
3, 7	Not connected



Type	Ordering code	Marking and Package according to	Packing according to
B3678	B39251-B3678-U310	C61157-A7-A56	F61074-V8070-Z000

Electrostatic Sensitive Device (ESD)

#### Maximum ratings

Operable temperature range	$T$	- 25 / + 85	$^{\circ}\text{C}$	
Storage temperature range	$T_{\text{stg}}$	- 40 / + 85	$^{\circ}\text{C}$	
DC voltage	$V_{\text{DC}}$	0	V	
Source power	$P_s$	0	dBm	



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### Characteristics

Operating temperature range:  $T = -25$  to  $+85^{\circ}\text{C}$   
 Terminating source impedance:  $Z_S = 200\ \Omega$   
 Terminating load impedance:  $Z_L = 50\ \Omega$

			min.	typ.	max.	
<b>Nominal frequency</b>	$f_N$		—	246,00	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$					
	245,5 ... 246,5 MHz		—	1,9	2,5	dB
<b>Amplitude ripple</b>	$\Delta\alpha$					
	245,5 ... 246,5 MHz		—	0,2	0,4	dB
in any 200 kHz span:	245,5 ... 246,5 MHz		—	0,1	0,2	dB
<b>Group delay ripple (p-p)</b>	$\Delta\tau$					
	245,8 ... 246,2 MHz		—	10,0	40,0	ns
	245,5 ... 246,5 MHz		—	15,0	50,0	ns
<b>Attenuation</b>	$\alpha_{\text{rel}}$					
	100,0 ... 226,0 MHz		40	50	—	dB
	226,0 ... 236,0 MHz		7	50	—	dB
	256,0 ... 266,0 MHz		7	15	—	dB
	266,0 ... 268,0 MHz		25	40	—	dB
	268,0 ... 500,0 MHz		35	50	—	dB



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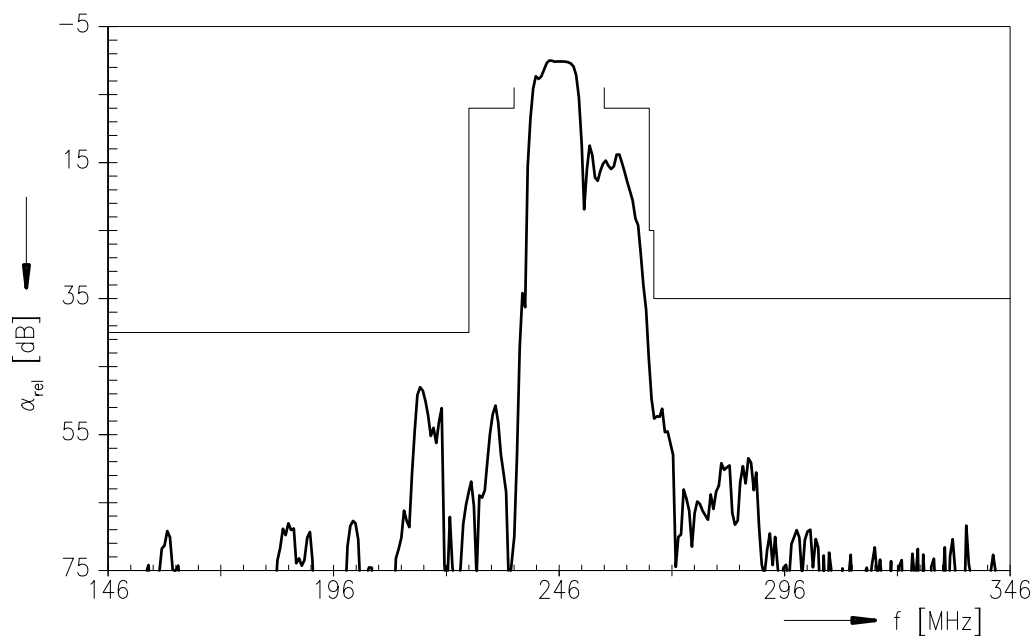
B3678

Low-Loss Filter

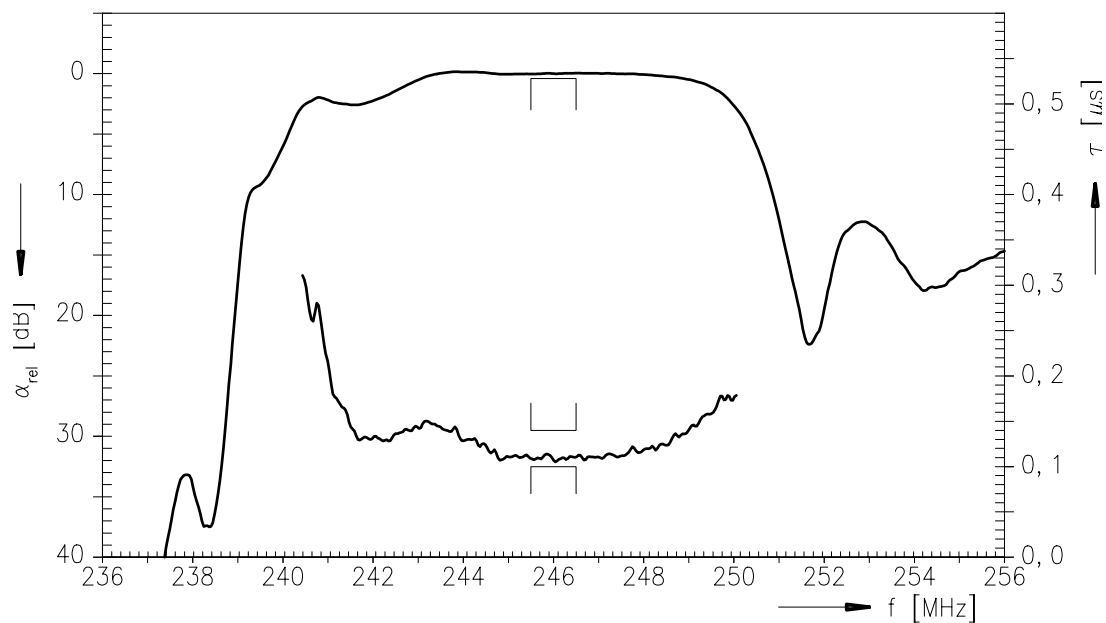
246,0 MHz

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Transfer function (reduced three port measurement)



Transfer function (reduced three port measurement)





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