



# SAW Components

Data Sheet B3676

Data Sheet

A large, stylized, 3D-rendered graphic of the word "EPCOS" in a light gray, sans-serif font. The letters are tilted and appear to be floating or emerging from a dark, textured background that resembles a globe or a complex circuit board. The overall effect is a sense of depth and modernity.



## SAW Components

B3676

## Low-Loss Filter

425,0 MHz

### Data Sheet

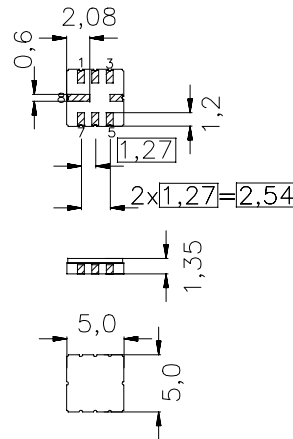
### Ceramic package QCC8C

#### Features

- Low-loss filter for TETRA
- Usable bandwidth 10 MHz
- No matching required for operation at 50  $\Omega$
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

#### Terminals

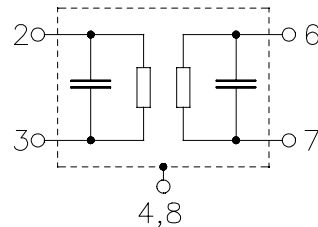
- Gold-plated



typ. Dimensions in mm, approx. weight 0,10 g

#### Pin configuration

2	Input
3	Input ground
6	Output
7	Output ground
1, 5	Ground
4, 8	Case ground



Type	Ordering code	Marking and Package according to	Packing according to
B3676	B39431-B3676-U310	C61157-A7-A56	F61074-V8070-Z000

Electrostatic Sensitive Device (ESD)

#### Maximum ratings

Operable temperature range	$T_A$	-40 / +85	$^{\circ}\text{C}$	
Storage temperature range	$T_{\text{stg}}$	-40 / +85	$^{\circ}\text{C}$	
DC voltage	$V_{\text{DC}}$	0	V	
Source power	$P_s$	10	dBm	source impedance 50 $\Omega$



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<b>Low-Loss Filter</b>	<b>425,0 MHz</b>

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### Characteristics

Operating temperature range:	$T_A = +15 \dots +35 \text{ }^{\circ}\text{C}$
Terminating source impedance:	$Z_S = 50 \text{ }\Omega$
Terminating load impedance:	$Z_L = 50 \text{ }\Omega$

		min.	typ.	max.	
<b>Nominal frequency</b>	$f_N$	—	425,0	—	MHz
<b>Maximum insertion attenuation</b> 420,0 MHz ... 430,0 MHz	$\alpha_{\max}$	—	2,5	4,0	dB
<b>Amplitude ripple (p-p)</b> 420,0 MHz ... 430,0 MHz	$\Delta\alpha$	—	0,45	1,0	dB
<b>VSWR</b> 420,0 MHz ... 430,0 MHz		—	1,4:1	2,0:1	
<b>Absolute attenuation</b>	$\alpha_{\text{abs}}$				
0,3 MHz ... 350,0 MHz		40	55	—	dB
350,0 MHz ... 400,0 MHz		20	45	—	dB
455,0 MHz ... 471,0 MHz		20	27	—	dB
490,0 MHz ... 512,0 MHz		30	60	—	dB
525,0 MHz ... 553,0 MHz		20	60	—	dB
560,0 MHz ... 593,0 MHz		40	60	—	dB
593,0 MHz ... 910,0 MHz		20	50	—	dB
910,0 MHz ... 1105,0 MHz		40	42	—	dB
1105,0 MHz ... 2000,0 MHz		20	25	—	dB
<b>Temperature coefficient of frequency</b>	$TC_f$	—	– 70	—	ppm/K



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### Low-Loss Filter

425,0 MHz

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##### Characteristics

Operating temperature range:  $T_A = -30 \dots +70 \text{ }^\circ\text{C}$   
Terminating source impedance:  $Z_S = 50 \text{ }\Omega$   
Terminating load impedance:  $Z_L = 50 \text{ }\Omega$

		min.	typ.	max.	
<b>Nominal frequency</b>	$f_N$	—	425,0	—	MHz
<b>Maximum insertion attenuation</b> 420,0 MHz ... 430,0 MHz	$\alpha_{\max}$	—	3,0	5,0	dB
<b>Amplitude ripple (p-p)</b> 420,0 MHz ... 430,0 MHz	$\Delta\alpha$	—	0,6	2,0	dB
<b>VSWR</b> 420,0 MHz ... 430,0 MHz		—	1,4:1	2,0:1	
<b>Absolute attenuation</b>	$\alpha_{\text{abs}}$				
0,3 MHz ... 350,0 MHz		40	55	—	dB
350,0 MHz ... 400,0 MHz		20	45	—	dB
455,0 MHz ... 471,0 MHz		20	27	—	dB
490,0 MHz ... 512,0 MHz		30	60	—	dB
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593,0 MHz ... 910,0 MHz		20	50	—	dB
910,0 MHz ... 1105,0 MHz		40	42	—	dB
1105,0 MHz ... 2000,0 MHz		20	25	—	dB
<b>Temperature coefficient of frequency</b>	$TC_f$	—	- 70	—	ppm/K



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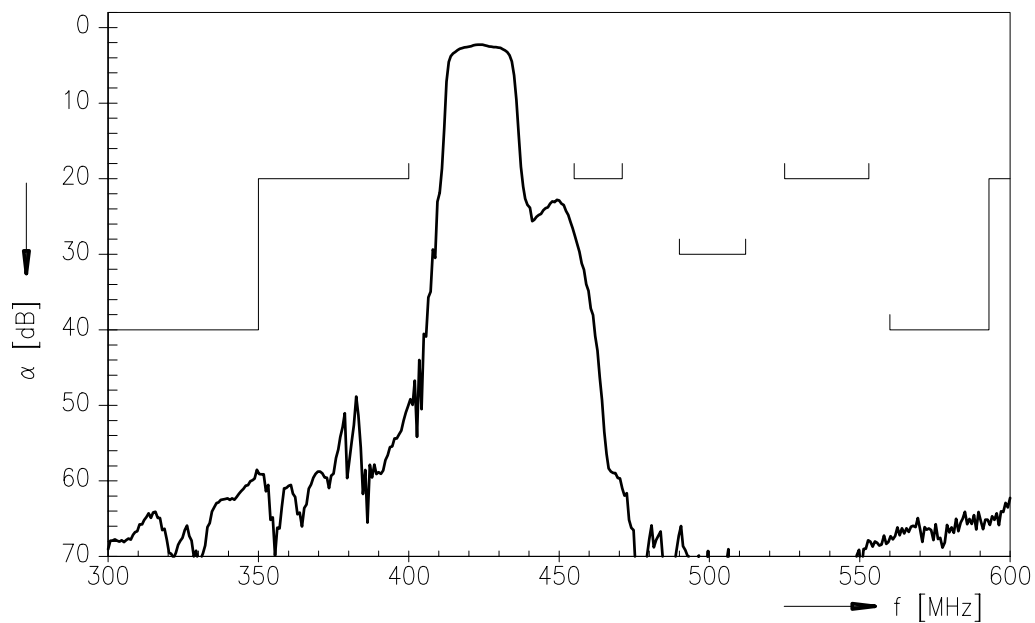
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Low-Loss Filter

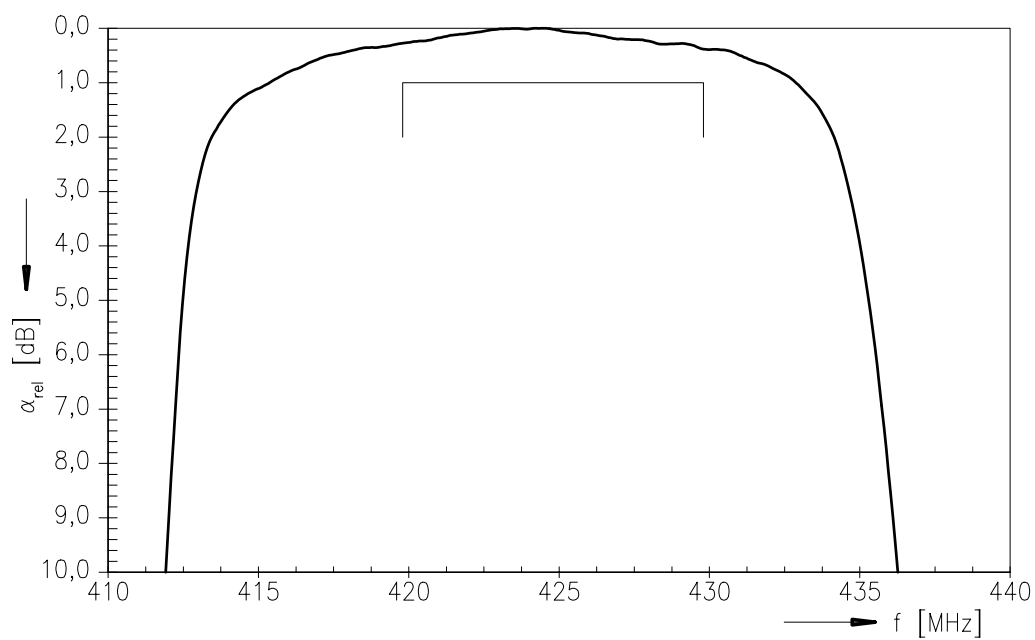
425,0 MHz

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Transfer function



Transfer function (pass band; +15 °C ... +35 °C)





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