



SAW Components

Data Sheet B3675

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a blue glow and are positioned diagonally across the frame. In the background, there is a faint, stylized globe with circuitry patterns, suggesting a global network or technological theme. The overall color scheme is dark with blue and white highlights.



SAW Components

B3675

Low-Loss Filter

415,0 MHz

Data Sheet

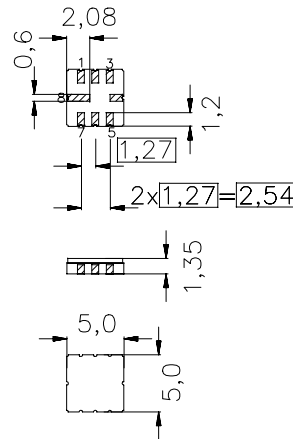
Ceramic package QCC8C

Features

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

Terminals

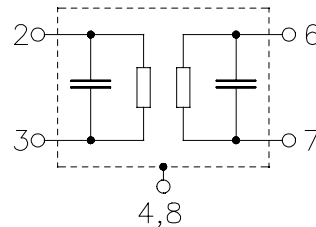
- Gold-plated



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
B3675	B39421-B3675-U310	C61157-A7-A56	F61074-V8070-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_A	-40 / +80	$^{\circ}\text{C}$	
Storage temperature range	T_{stg}	-40 / +85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
Source power	P_s	15	dBm	source impedance 50 Ω



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Characteristics

Operating temperature range:	$T_A = -10 \dots +60 \text{ }^{\circ}\text{C}$
Terminating source impedance:	$Z_S = 50 \text{ }\Omega$
Terminating load impedance:	$Z_L = 50 \text{ }\Omega$

		min.	typ.	max.	
Nominal frequency	f_N	—	415,0	—	MHz
Maximum insertion attenuation 410,0 MHz ... 420,0 MHz	$\alpha_{\max}$	—	2,5	4,0	dB
Amplitude ripple (p-p) 410,0 MHz ... 420,0 MHz	$\Delta\alpha$	—	0,45	1,0	dB
VSWR 410,0 MHz ... 420,0 MHz		—	1,4:1	2,0:1	
Absolute attenuation 0,3 MHz ... 330,0 MHz	α_{abs}	40	60	—	dB
500,0 MHz ... 840,0 MHz		40	50	—	dB
840,0 MHz ... 1260,0 MHz		20	35	—	dB
Temperature coefficient of frequency	TC_f	—	- 70	—	ppm/K



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Characteristics

Operating temperature range:	$T_A = -40 \dots +80 \text{ }^{\circ}\text{C}$
Terminating source impedance:	$Z_S = 50 \text{ }\Omega$
Terminating load impedance:	$Z_L = 50 \text{ }\Omega$

		min.	typ.	max.	
Nominal frequency	f_N	—	415,0	—	MHz
Maximum insertion attenuation 410,0 MHz ... 420,0 MHz	$\alpha_{\max}$	—	3,0	5,0	dB
Amplitude ripple (p-p) 410,0 MHz ... 420,0 MHz	$\Delta\alpha$	—	0,6	2,0	dB
VSWR 410,0 MHz ... 420,0 MHz		—	1,4:1	2,0:1	
Absolute attenuation 0,3 MHz ... 330,0 MHz	α_{abs}	40	60	—	dB
500,0 MHz ... 840,0 MHz		40	50	—	dB
840,0 MHz ... 1260,0 MHz		20	35	—	dB
Temperature coefficient of frequency	TC_f	—	- 70	—	ppm/K



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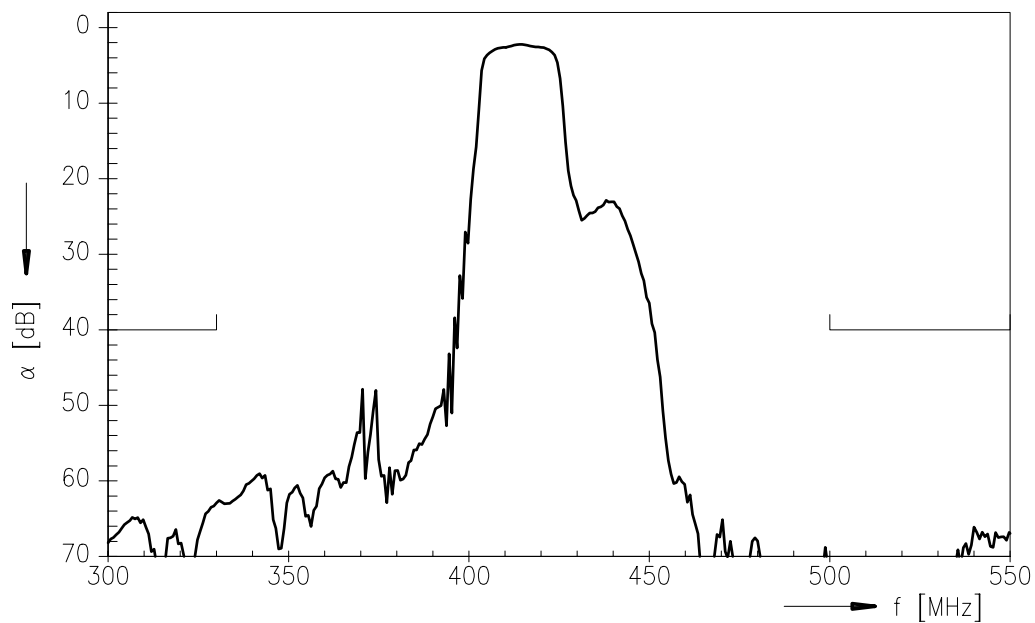
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Low-Loss Filter

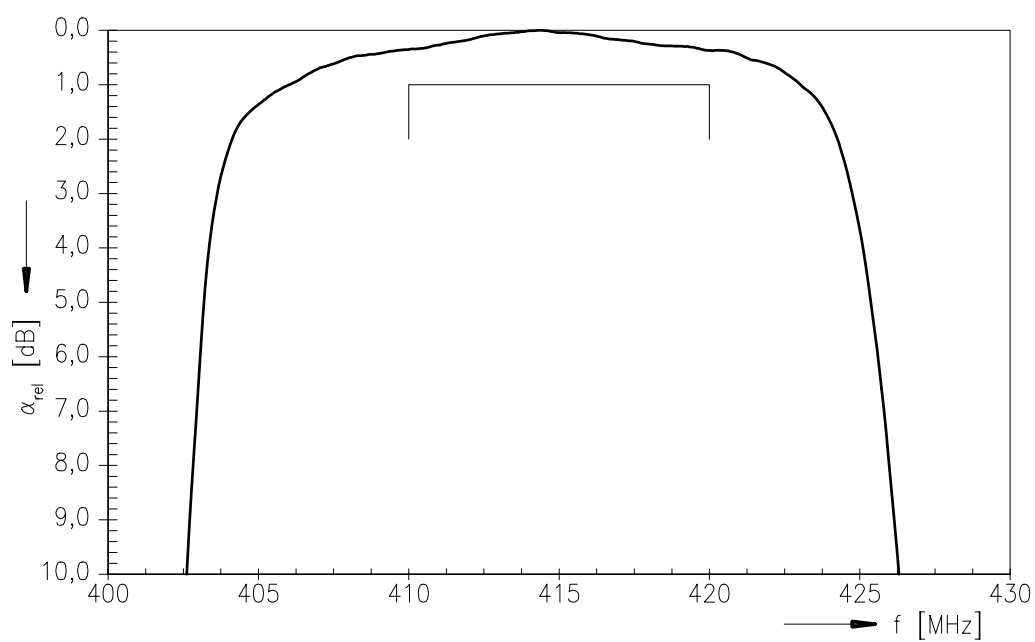
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Transfer function



Transfer function (pass band; -10 °C ... +60 °C)





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