



SAW Components

Data Sheet B3676

Data Sheet

A large, stylized, 3D-rendered graphic of the EPCOS logo. The letters "EPCOS" are in a bold, sans-serif font, appearing to be part of a larger, curved structure that resembles a globe or a stylized wave. The graphic is rendered in shades of gray and white, giving it a metallic or high-tech appearance.



SAW Components

B3676

Low-Loss Filter

425,0 MHz

Data Sheet

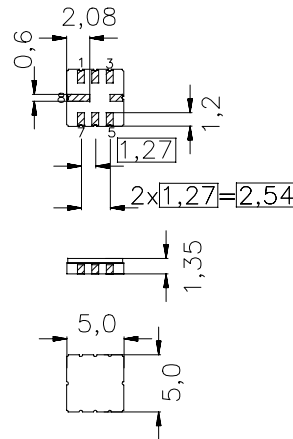
Ceramic package QCC8C

Features

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

Terminals

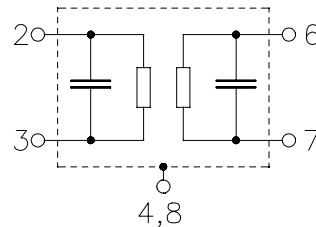
- Gold-plated



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
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_{stg}	-40 / +85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
Source power	P_s	10	dBm	source impedance 50 Ω



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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.	
Nominal frequency	f_N	—	425,0	—	MHz
Maximum insertion attenuation 420,0 MHz ... 430,0 MHz	α_{\max}	—	2,5	4,0	dB
Amplitude ripple (p-p) 420,0 MHz ... 430,0 MHz	$\Delta\alpha$	—	0,45	1,0	dB
VSWR 420,0 MHz ... 430,0 MHz		—	1,4:1	2,0:1	
Absolute attenuation	α_{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
Temperature coefficient of frequency	TC_f	—	– 70	—	ppm/K



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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.	
Nominal frequency	f_N	—	425,0	—	MHz
Maximum insertion attenuation 420,0 MHz ... 430,0 MHz	α_{\max}	—	3,0	5,0	dB
Amplitude ripple (p-p) 420,0 MHz ... 430,0 MHz	$\Delta\alpha$	—	0,6	2,0	dB
VSWR 420,0 MHz ... 430,0 MHz		—	1,4:1	2,0:1	
Absolute attenuation	α_{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
Temperature coefficient of frequency	TC_f	—	- 70	—	ppm/K



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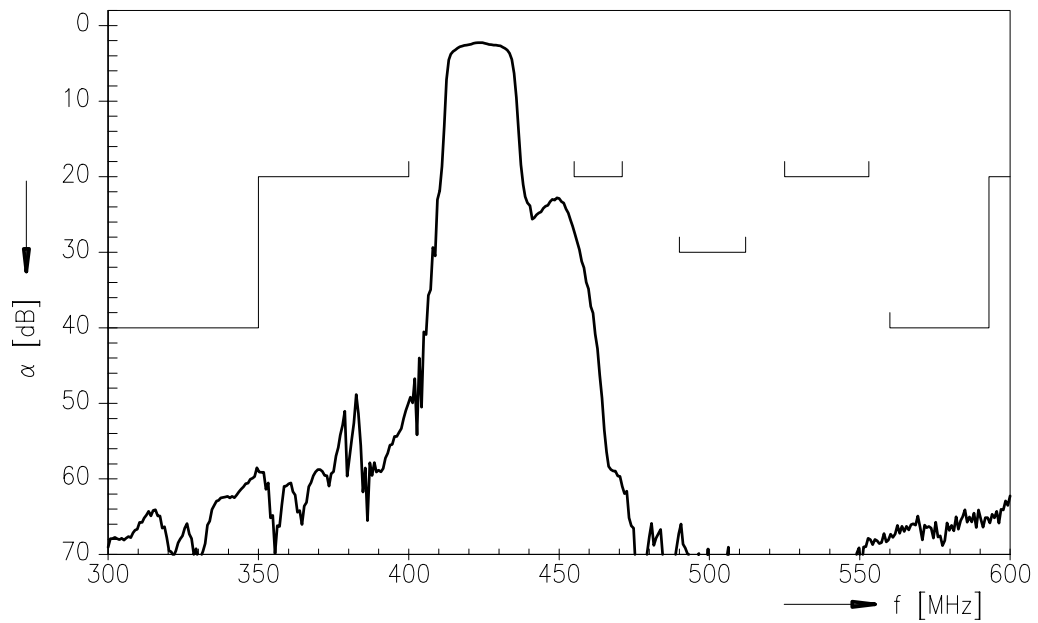
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Low-Loss Filter

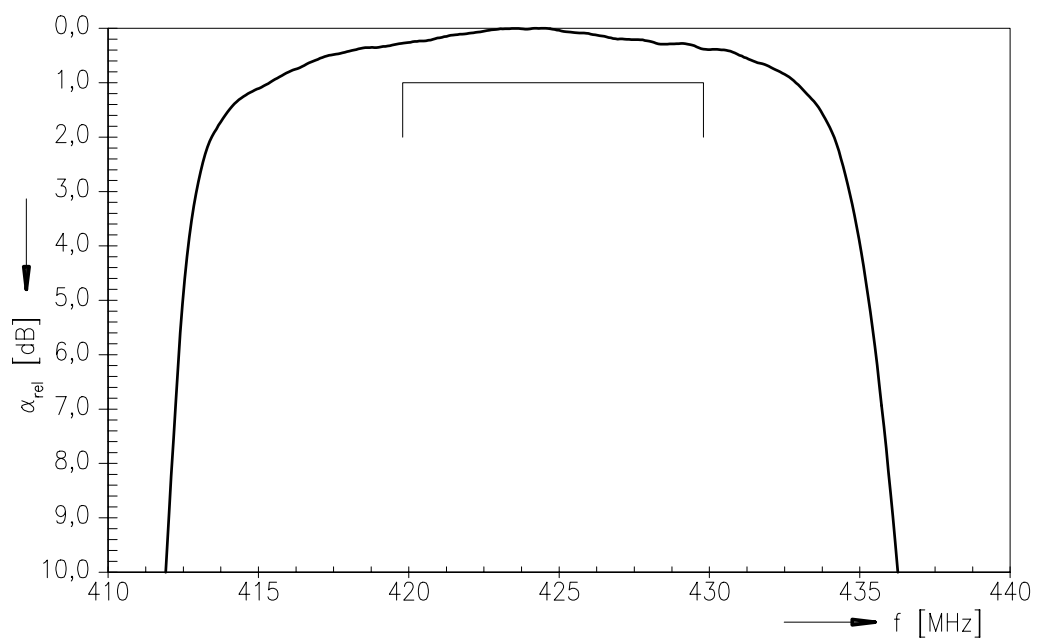
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Transfer function



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





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