



SAW Components

Data Sheet B3676

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

B3676

Low-Loss Filter

425,0 MHz

Data Sheet

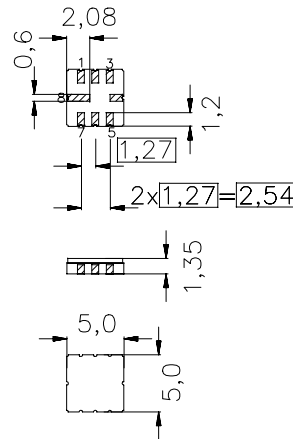
Ceramic package QCC8C

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

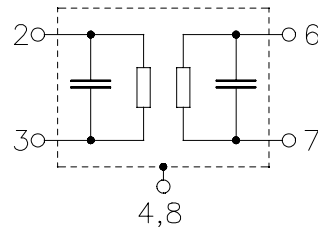
- Gold-plated



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



SAW Components	B3676
Low-Loss Filter	425,0 MHz

Data Sheet

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	$\alpha_{\max}$	—	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



SAW Components	B3676
Low-Loss Filter	425,0 MHz

Data Sheet

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	$\alpha_{\max}$	—	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



SAW Components

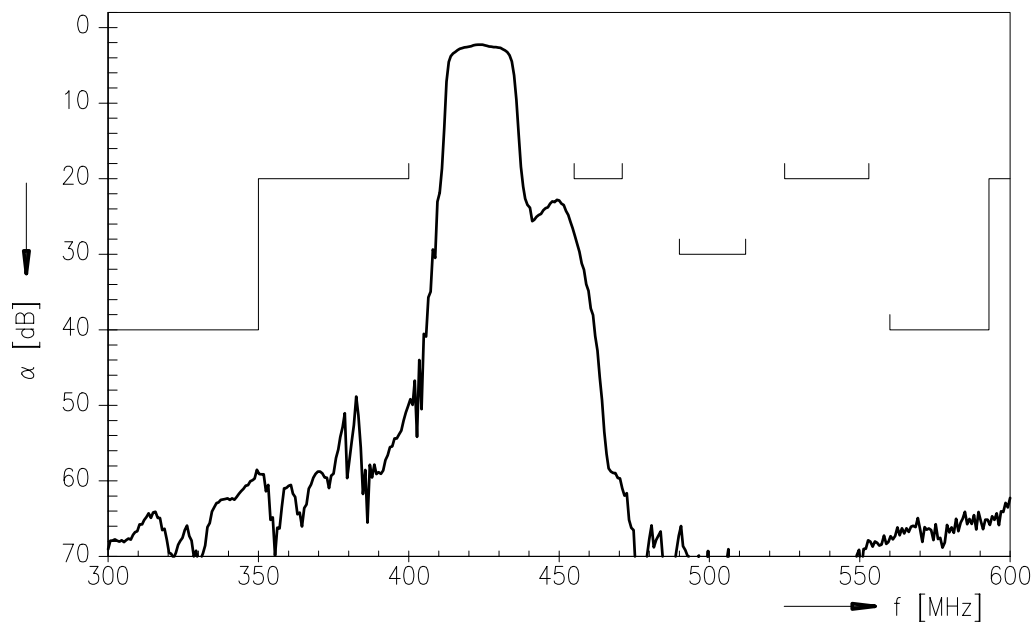
B3676

Low-Loss Filter

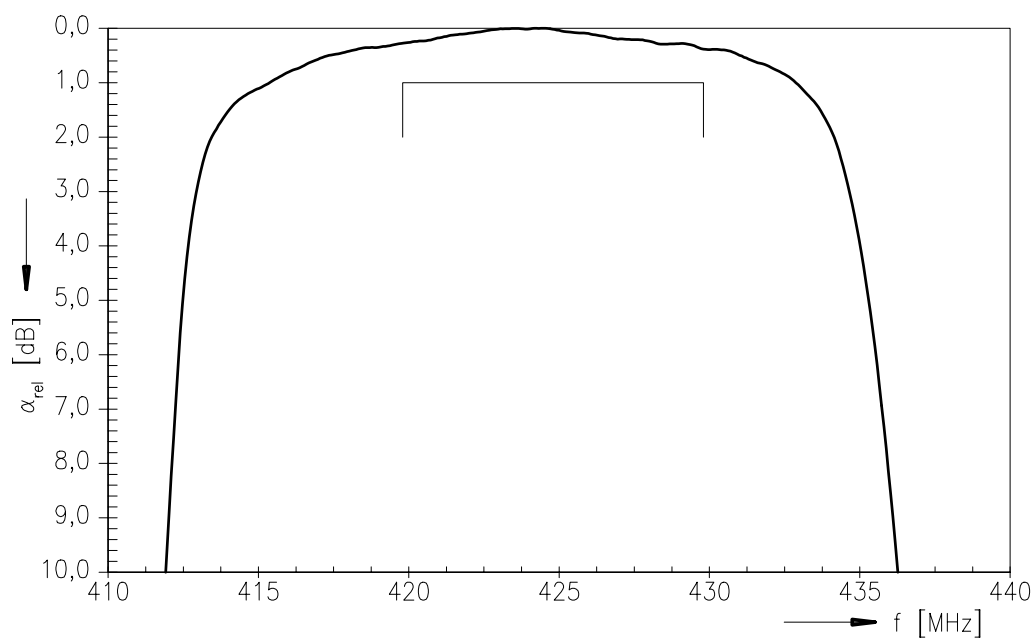
425,0 MHz

Data Sheet

Transfer function



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





SAW Components	B3676
Low-Loss Filter	425,0 MHz

Data Sheet

Published by EPCOS AG
Surface Acoustic Wave Components Division, OFW E NK
P.O. Box 80 17 09, D-81617 München

© EPCOS AG 1999. All Rights Reserved.

As far as patents or other rights of third parties are concerned, liability is only assumed for components per se, not for applications, processes and circuits implemented within components or assemblies.

The information describes the type of component and shall not be considered as assured characteristics.

Terms of delivery and rights to change design reserved.

For questions on technology, prices and delivery please contact the sales offices of EPCOS AG or the international representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our sales offices.