



SAW Components

Data Sheet B3680

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

B3680

Low-Loss Filter

352,0 MHz

Data Sheet

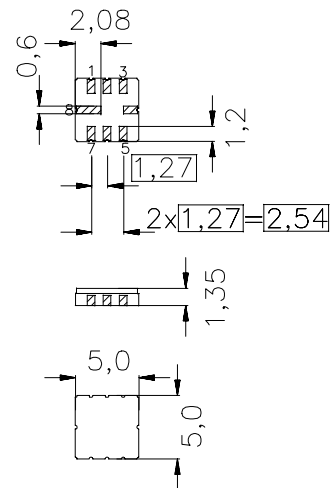
Ceramic package QCC8C

Features

- Low-loss IF filter for Wireless LAN
- Low insertion attenuation
- Low amplitude ripple
- Usable passband 12 MHz
- Balanced or unbalanced operation
- Hermetically sealed ceramic package
- Package for Surface Mounted Technology (SMT)

Terminals

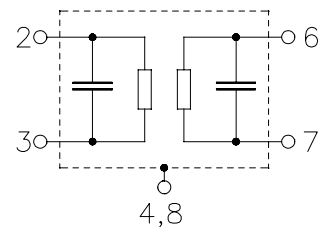
- Gold plated



typ. Dimensions in mm, approx. weight 0,1 g

Pin configuration

2, 3	Input, input ground or bal. input
6, 7	Output, outp. ground or bal. outp.
4, 8	Case ground
1, 5	Ground



Type	Ordering code	Marking and Package according to	Packing according to
B3680	B39351-B3680-U310	C61157-A7-A56	F61074-V8070-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_A	-25 / +85	°C
Storage temperature range	T_{stg}	-40 / +85	°C
DC voltage	V_{DC}	0	V
Source power	P_s	10	dBm



SAW Components

B3680

Low-Loss Filter

352,0 MHz

Data Sheet

Characteristics

Operating temperature range:

$$T_A = 0 \dots 85 \text{ }^{\circ}\text{C}$$

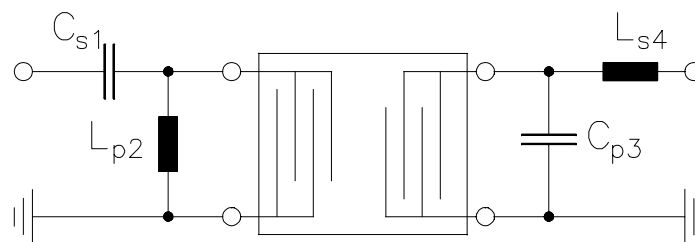
Terminating source impedance:

$$Z_S = 50 \text{ } \Omega \text{ and matching network}$$

Terminating load impedance:

$$Z_L = 50 \text{ } \Omega \text{ and matching network}$$

		min.	typ.	max.	
Nominal frequency	f_N	—	352,0	—	MHz
Minimum insertion attenuation	α_{\min}	—	2,7	3,5	dB
Amplitude ripple in passband (p-p) 346,0 358,0 MHz	$\Delta\alpha$	—	1,4	3,0	dB
Group delay ripple (p-p) 346,0 358,0 MHz	$\Delta\tau$	—	40	170	ns
346,5 358,0 MHz		—	40	120	ns
Pass bandwidth $\alpha_{\text{rel}} \leq 3\text{dB}$	$B_{3\text{dB}}$	14,0	15,6	—	MHz
Relative attenuation (relative to α_{\min})	α_{rel}				
0,3 333,0 MHz		45	54	—	dB
333,0 341,0 MHz		11	34	—	dB
363,0 366,0 MHz		11	19	—	dB
366,0 371,0 MHz		22	25	—	dB
371,0 374,0 MHz		25	35	—	dB
374,0 392,0 MHz		34	36	—	dB
392,0 400,0 MHz		45	54	—	dB
Temperature coefficient of frequency	TC_f	—	– 70	—	ppm/K

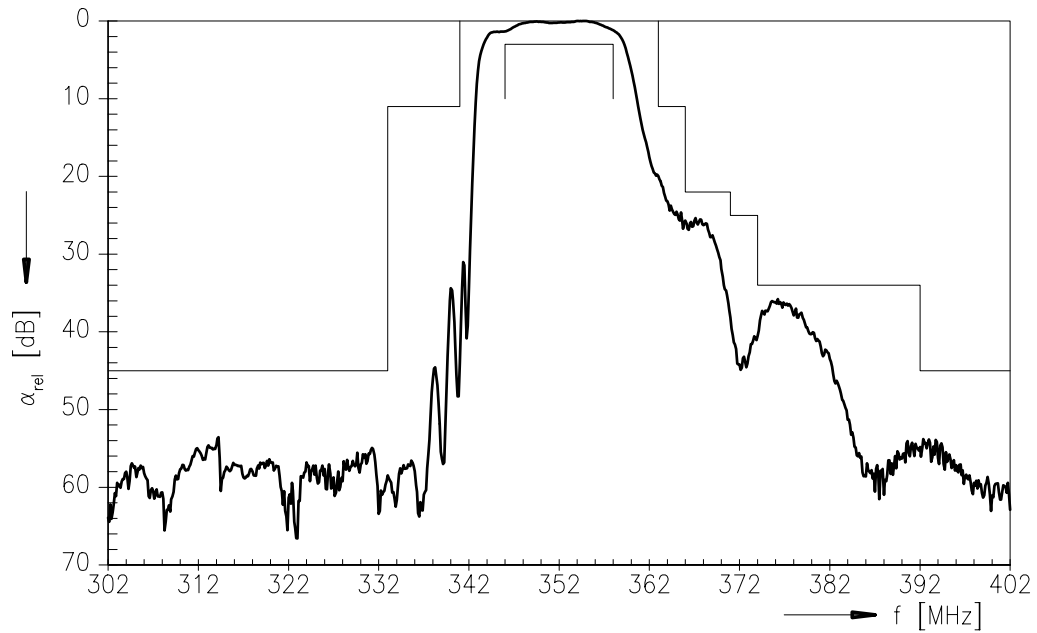
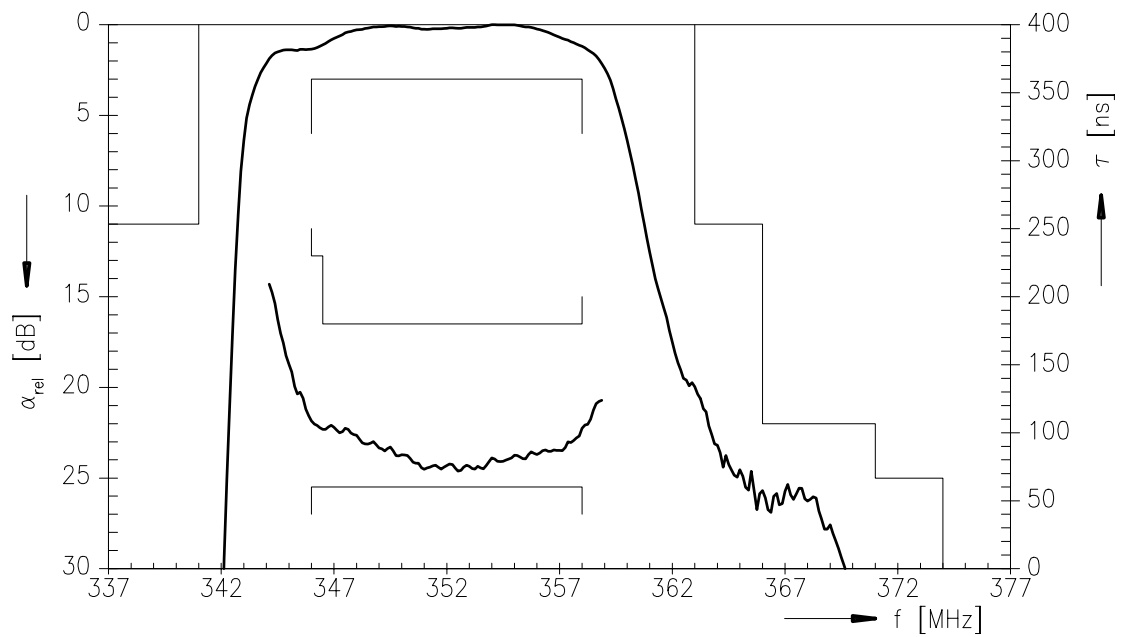
**SAW Components****B3680****Low-Loss Filter****352,0 MHz****Data Sheet****matching network:**

$$C_{s1} = 10 \text{ pF}$$

$$L_{p2} = 27 \text{ nH}$$

$$C_{p3} = 1,2 \text{ pF}$$

$$L_{s4} = 27 \text{ nH}$$

**SAW Components****B3680****Low-Loss Filter****352,0 MHz****Data Sheet****Transfer function:****Transfer function (pass band):**



SAW Components	B3680
Low-Loss Filter	352,0 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.