EPCOS

SAW Components

Data Sheet B3897

Data Sheet

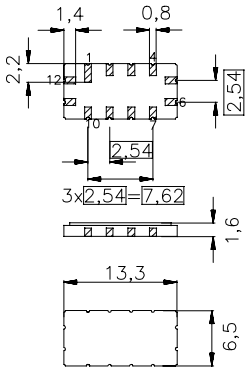
Ceramic package **QCC12**

Features

- IF low-loss filter
- 2,85 MHz usable bandwidth
- Ceramic SMD package

Terminals

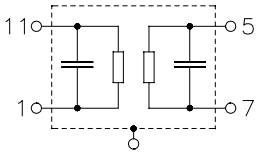
- Gold plated



Dim. in mm, aprox. weight 0,44 g

Pin configuration

11	Input (balanced)
1	Input (balanced or ground)
5	Output (balanced)
7	Output (balanced or ground)
2, 3, 8, 9	Case - ground
4, 6, 10, 12	To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B3897	B39700-B3897-Z510	C61157-A7-A55	F61074-V8163-Z000

Electrostatic **S**ensitive **D**evice (**ESD**)

Maximum ratings

Operable temperature range	T	– 40/+ 85	˚C	
Storage temperature range	T_{stg}	– 40/+ 85	˚C	
DC voltage	V_{DC}	0	V	
Source power	P_s	10	dBm	

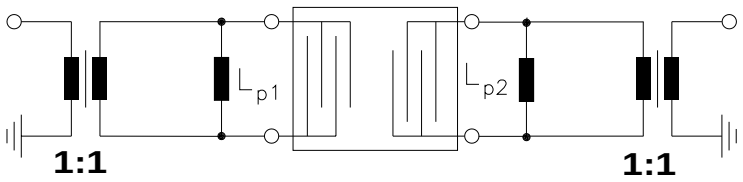
Data Sheet

Characteristics

Operating temperature range: T = -20 to 80 ˚C
Terminating source impedance: Z_S = 50 Ω balanced and matching network
Terminating load impedance: Z_L = 50 Ω balanced and matching network

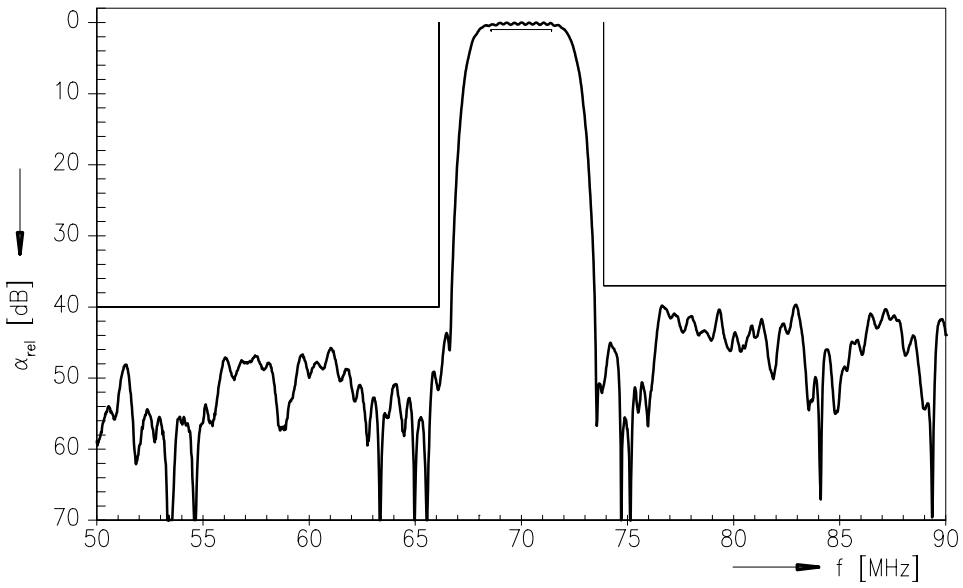
		min.	typ.	max.	
Nominal frequency	f_N	—	70,0	—	MHz
Insertion attenuation at f_N (including matching network)	α_N	—	6,3	8,0	dB
Passband width $\alpha_{rel} \leq 3{,}0$ dB	$B_{3,0dB}$	3,5	4,7	—	MHz
Amplitude ripple (p-p)	$\Delta\alpha$				
$f_N \pm 1{,}425$ MHz		—	0,5	1,0	dB
Phase ripple (p-p)	$\Delta\varphi$				
$f_N \pm 1{,}425$ MHz		—	3,0	7,0	°
Absolute group delay (@ f_N)	τ	—	1,47	—	µs
Group delay ripple (p-p)	$\Delta\tau$				
$f_N \pm 1{,}425$ MHz		—	110	175	ns
Relative attenuation (relative to α_N)	α_{rel}				
$f_N - 3{,}875$ MHz... $f_N - 20$ MHz		40	45	—	dB
$f_N + 3{,}875$ MHz... $f_N + 20$ MHz		37	40	—	dB
Temperature coefficient of frequency	TC_f	—	-87	—	ppm/K

Matching network (Element values depend upon PCB layout)

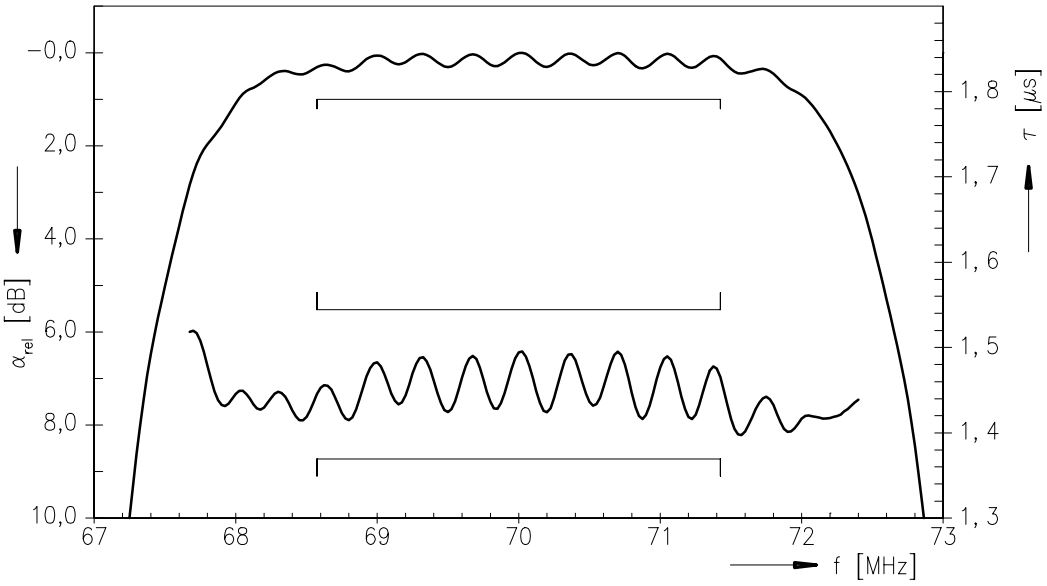


L_{p1} = 68 nH L_{p2} = 68 nH

Normalized frequency response



Normalized frequency response (pass band)



Published by EPCOS AG
Surface Acoustic Wave Components Division, SAW MC
P.O. Box 80 17 09, 81617 Munich, GERMANY

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

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.