



SAW Components

Data Sheet B3822

Data Sheet

An abstract, grayscale graphic featuring a stylized, three-dimensional representation of the EPCOS logo. The letters "EPCOS" are rendered in a bold, sans-serif font, appearing to be part of a larger, curved structure that resembles a globe or a stylized wave. The background is dark and textured, with light reflecting off the surfaces of the logo.



SAW Components

B3822

Low-Loss Filter

392,5 MHz

Data Sheet

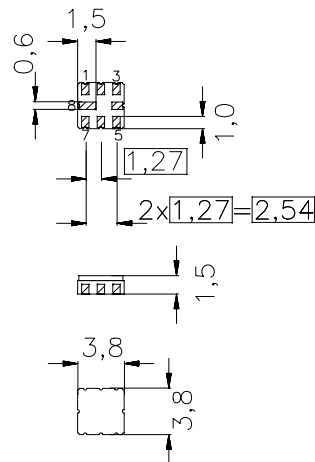
Ceramic package QCC8B

Features

- Low-loss filter (RX) for Trunked Radio
- Usable bandwidth 5 MHz
- No matching required for operation at 50 Ω
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

Terminals

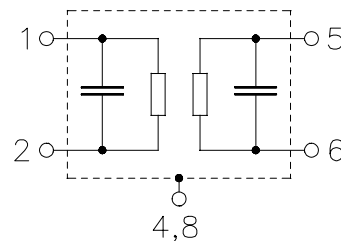
- Gold-plated



typ. Dimensions in mm, approx. weight 0,07 g

Pin configuration

1	Input
2	Input ground
5	Output
6	Output ground
3, 7	Ground
4, 8	Case ground



Type	Ordering code	Marking and Package according to	Packing according to
B3822	B39391-B3822-Z810	C61157-A7-A46	F61074-V8037-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_A	-30 / +70	$^{\circ}\text{C}$	
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	B3822
Low-Loss Filter	392,5 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	—	392,5	—	MHz
Maximum insertion attenuation 390,0 MHz ... 395,0 MHz	α_{\max}	—	2,7	3,5	dB
Amplitude ripple (p-p) 390,0 MHz ... 395,0 MHz	$\Delta\alpha$	—	0,6	1,4	dB
Return loss (Input and Output) 390,0 MHz ... 395,0 MHz		11,5	12,5	—	dB
VSWR 390,0 MHz ... 395,0 MHz		—	1,65:1	2,0:1	
Absolute attenuation	α_{abs}				
0,1 MHz ... 350,0 MHz		40	60	—	dB
350,0 MHz ... 385,0 MHz		25	35	—	dB
430,0 MHz ... 885,0 MHz		40	45	—	dB
885,0 MHz ... 2000,0 MHz		20	25	—	dB
Temperature coefficient of frequency	TC_f	—	– 36	—	ppm/K



SAW Components

B3822

Low-Loss Filter

392,5 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	—	392,5	—	MHz
Maximum insertion attenuation 390,0 MHz ... 395,0 MHz	α_{\max}	—	3,0	3,5	dB
Amplitude ripple (p-p) 390,0 MHz ... 395,0 MHz	$\Delta\alpha$	—	0,8	2,0	dB
Return loss (Input and Output) 390,0 MHz ... 395,0 MHz		11,5	12,5	—	dB
VSWR 390,0 MHz ... 395,0 MHz		—	1,65:1	2,0:1	
Absolute attenuation	α_{abs}				
0,1 MHz ... 350,0 MHz		40	60	—	dB
350,0 MHz ... 385,0 MHz		25	35	—	dB
430,0 MHz ... 885,0 MHz		40	45	—	dB
885,0 MHz ... 2000,0 MHz		20	25	—	dB
Temperature coefficient of frequency	TC_f	—	– 36	—	ppm/K



SAW Components

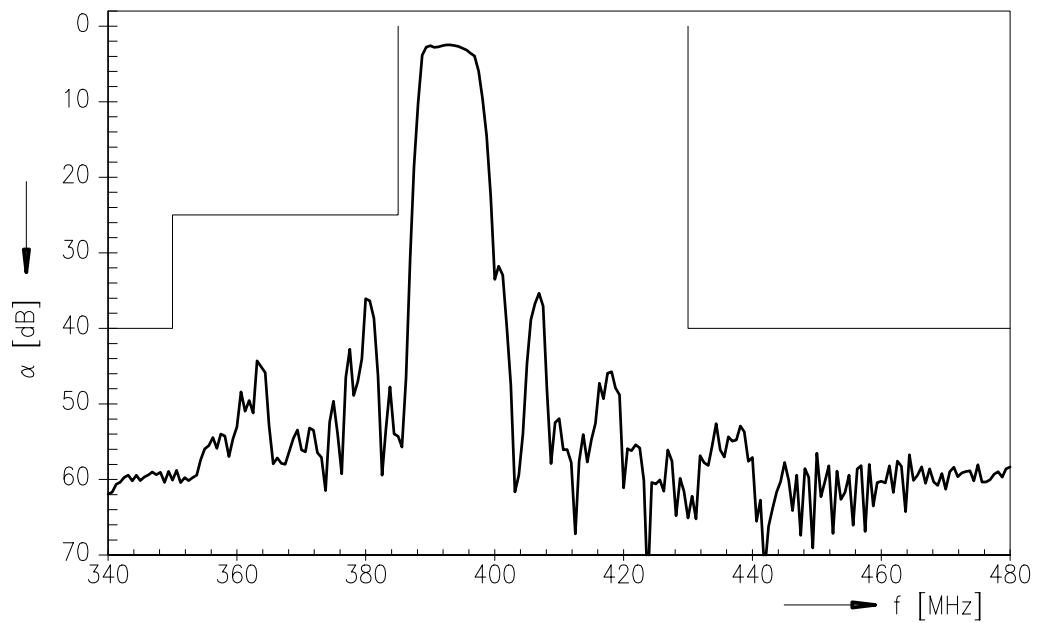
B3822

Low-Loss Filter

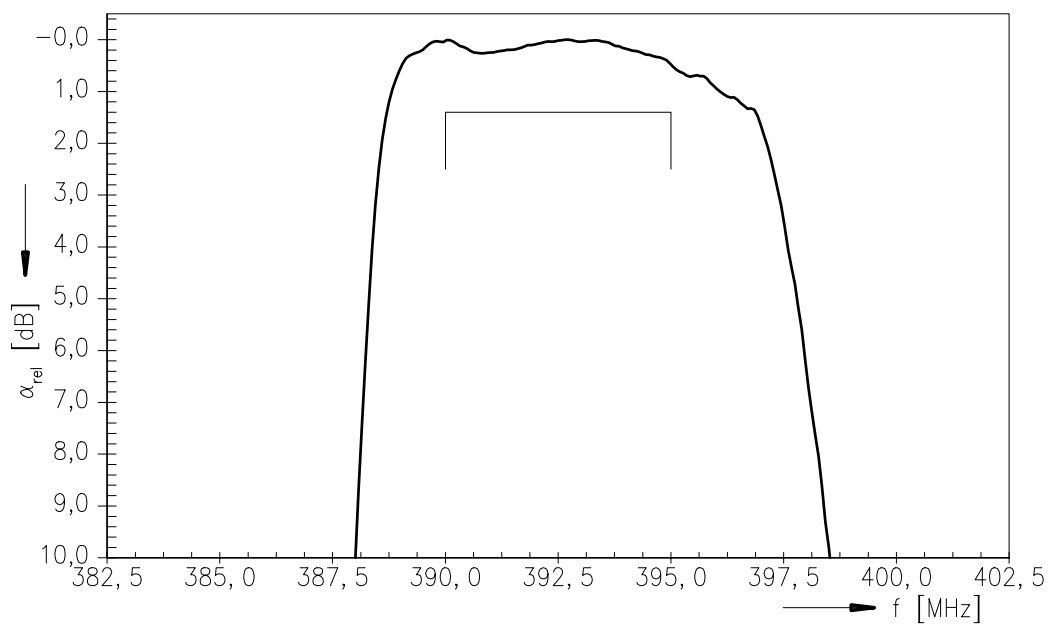
392,5 MHz

Data Sheet

Transfer function



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





SAW Components	B3822
Low-Loss Filter	392,5 MHz

Data Sheet

Published by EPCOS AG
Surface Acoustic Wave Components Division, SAW MC IS PD
P.O. Box 80 17 09, D-81617 München

© EPCOS AG 2001. 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.