



SAW Components

Data Sheet B3625





SAW Components

B3625

Low-Loss Filter

71,00 MHz

Data Sheet

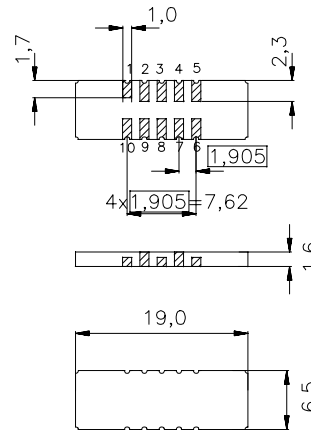
Ceramic package DCC18

Features

- Low-loss IF filter for basestation
- Channel selection in GSM systems
- Hermetically sealed ceramic SMD package

Terminals

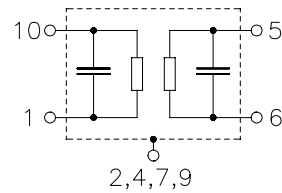
- Gold plated



Dim. in mm, approx. weight 0,8 g

Pin configuration

- 10,1 Input
- 5,6 Output
- 3,8 Ground
- 2,4,7,9 Case – ground



Type	Ordering code	Marking and Package according to	Packing according to
B3625	B39710-B3625-U210	C61157-A7-A54	F61074-V8069-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 30/+ 85	°C	
Storage temperature range	T_{stg}	- 30/+ 85	°C	
DC voltage	V_{DC}	0	V	
Source power	P_s	10	dBm	



SAW Components

B3625

Low-Loss Filter

71,00 MHz

Data Sheet

Characteristics

Operating temperature: $T = 0 - 70\text{ }^{\circ}\text{C}$
 Terminating source impedance: $Z_S = 200\text{ }\Omega$ unbalanced and matching network
 Terminating load impedance: $Z_L = 200\text{ }\Omega$ unbalanced and matching network

		min.	typ.	max.	
Nominal frequency	f_N	—	71,0	—	MHz
Minimum insertion attenuation (including matching network)	α_N	—	7,0	8,0	dB
Passband width $\alpha_{rel} \leq 1\text{ dB}$	$B_{1,0dB}$	—	0,21	—	MHz
Amplitude ripple in passband 70,92 ... 71,08 MHz	$\Delta\alpha$	—	$\pm 0,6$	$\pm 1,0$	dB
Absolute group delay	τ	2,35	2,50	2,65	μs
Group delay ripple (p-p) 70,92 ... 71,08 MHz	$\Delta\tau$	—	0,45	1,5	μs
Relative attenuation (relative to α_N)	α_{rel}				
$f_N \pm 200\text{ kHz} \dots f_N \pm 300\text{ kHz}$		3	—	—	dB
$f_N \pm 300\text{ kHz} \dots f_N \pm 400\text{ kHz}$		13	—	—	dB
$f_N \pm 400\text{ kHz} \dots f_N \pm 700\text{ kHz}$		23	—	—	dB
$f_N \pm 700\text{ kHz} \dots f_N \pm 1600\text{ kHz}$		31	—	—	dB
$\quad\quad\quad @ f_N \pm 800\text{ kHz}$		34	—	—	dB
$f_N \pm 1600\text{ kHz} \dots f_N \pm 6000\text{ kHz}$		35	—	—	dB
$f_N \pm 6000\text{ kHz} \dots f_N \pm 35000\text{ kHz}$		40	—	—	dB
IM3 level (Input level -14 dBm)					
$f_N \pm 800\text{ kHz}$		—	—	-95	dBm
$f_N \pm 1600\text{ kHz}$		—	—	-95	dBm
Temperature coefficient of frequency ¹⁾	TC_f	—	- 0,033	—	ppm/K ²
Turnover temperature	T_0	—	10	—	$^{\circ}\text{C}$

¹⁾ Temperature dependance of f_c : $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$



SAW Components

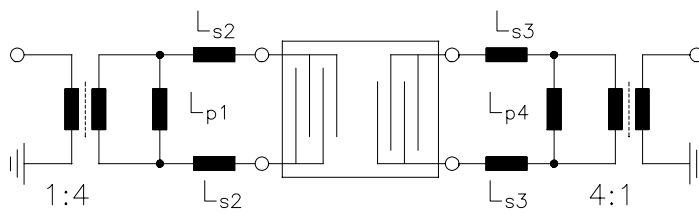
B3625

Low-Loss Filter

71,00 MHz

Data Sheet

Matching network:



Lp1=120 nH

Ls2=120 nH

Ls3=220 nH

Lp4=180 nH



SAW Components

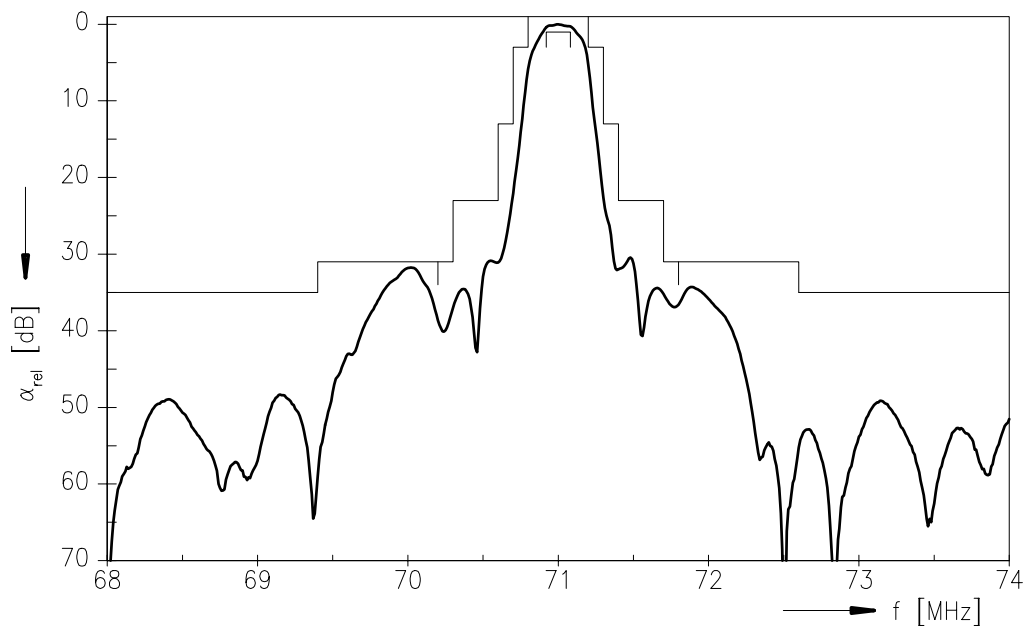
B3625

Low-Loss Filter

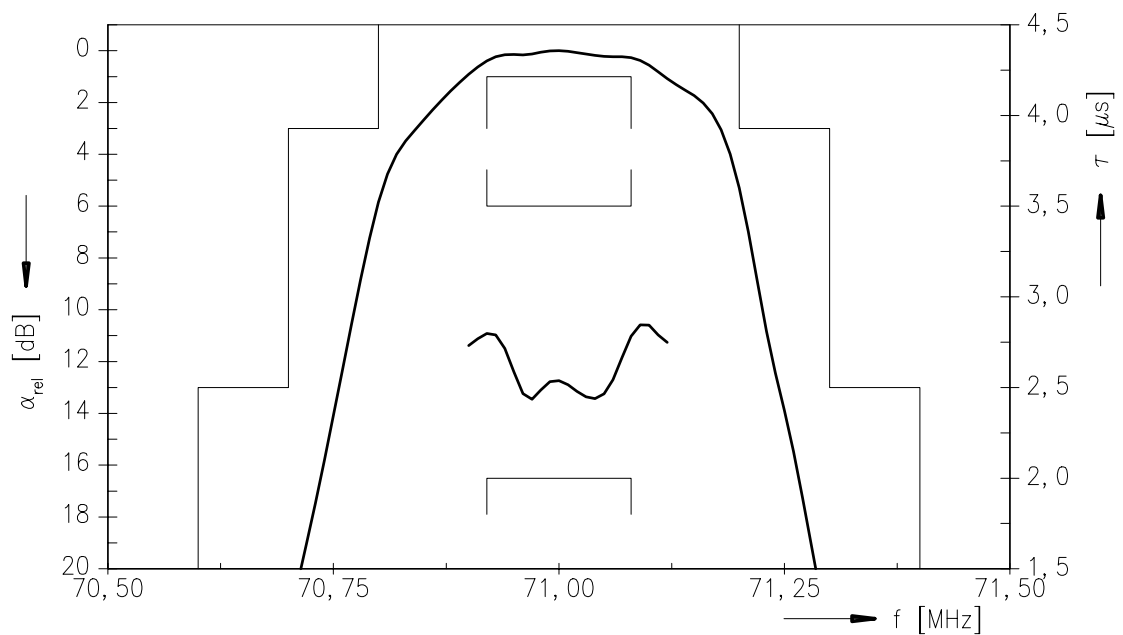
71,00 MHz

Data Sheet

Normalized frequency response



Normalized frequency response (pass band)





SAW Components

B3625

Low-Loss Filter

71,00 MHz

Data Sheet

Published by EPCOS AG

Surface Acoustic Wave Components Division, SAW MC IS

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.