



SAW Components

Data Sheet B3625

Data Sheet

An abstract graphic with a dark, textured background. The word "EPCOS" is rendered in large, glowing, 3D letters that appear to be floating or emerging from the background. Behind the letters, there is a faint, stylized globe showing the outlines of continents. The overall effect is one of high-tech and global connectivity.



SAW Components

B3625

Low-Loss Filter

71,00 MHz

Data Sheet

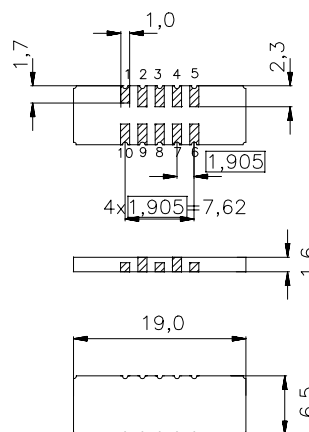
Ceramic package **DCC18**

Features

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

Terminals

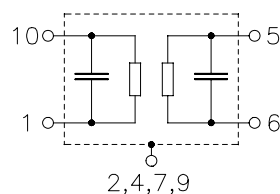
- Gold plated



Dim. in mm, aprox. 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	



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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 $\alpha_{\text{rel}} \leq 1\text{ dB}$	$B_{1,0\text{dB}}$	—	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 : $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$



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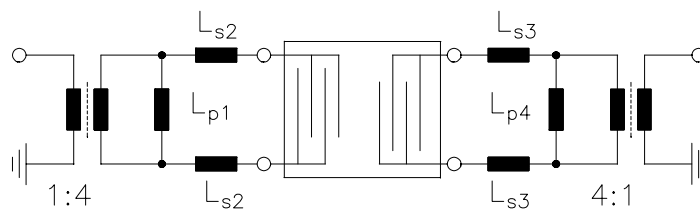
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Matching network:



$L_{p1}=120\text{ nH}$

$L_{s2}=120\text{ nH}$

$L_{s3}=220\text{ nH}$

$L_{p4}=180\text{ nH}$



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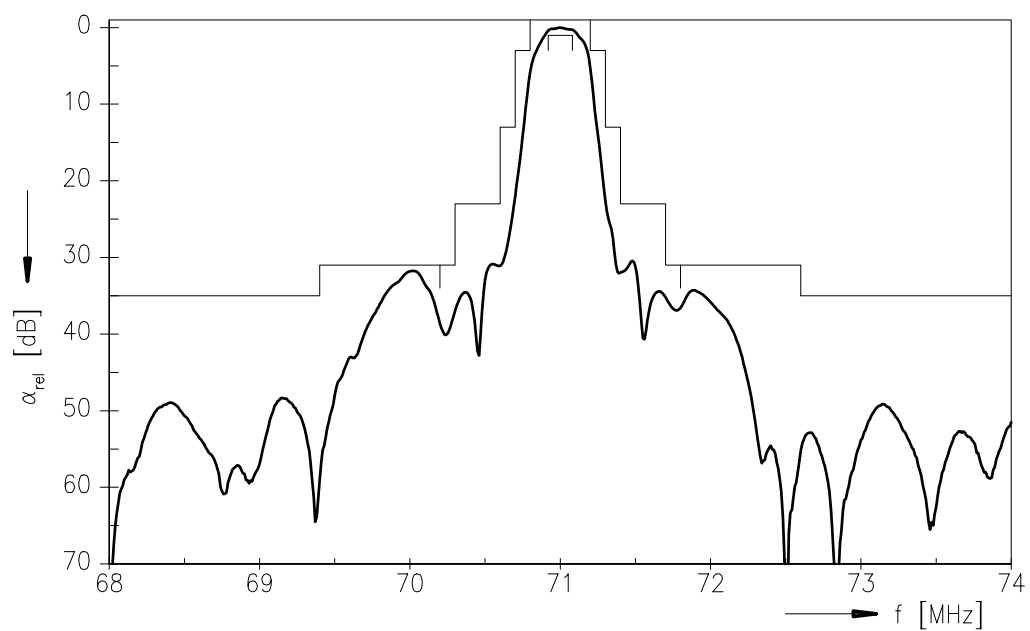
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Low-Loss Filter

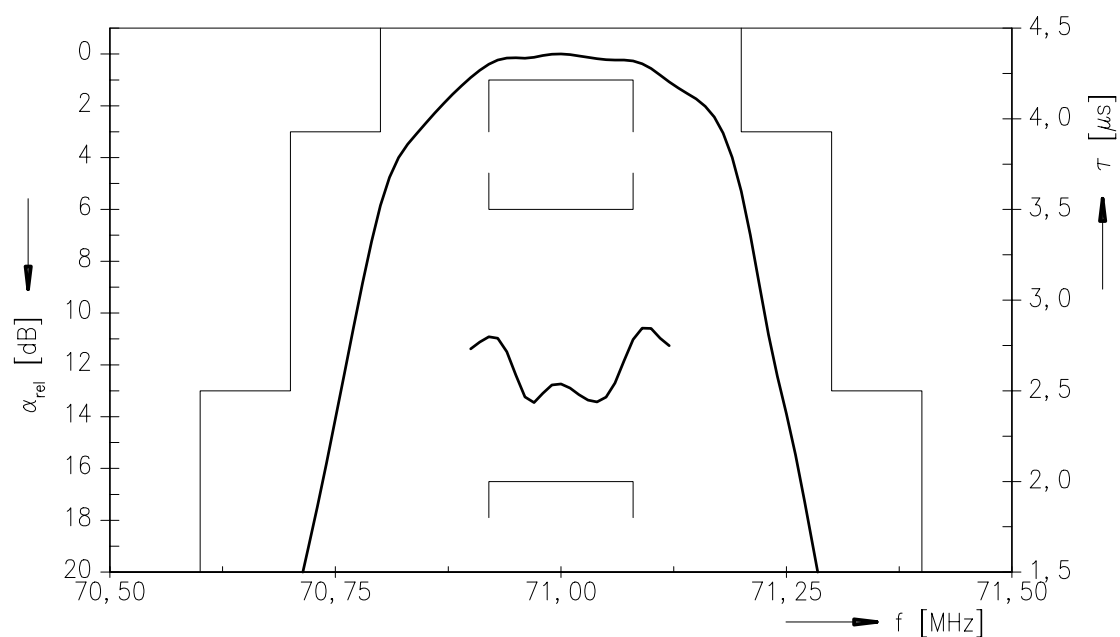
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Normalized frequency response



Normalized frequency response (pass band)





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