EPCOS

SAW Components

Data Sheet B3625

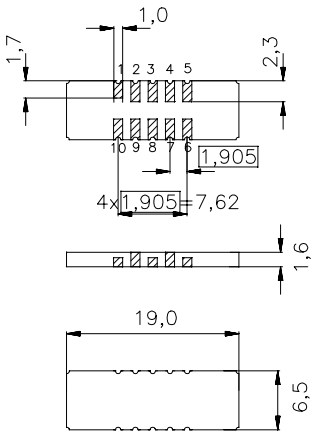
Ceramic package **DCC18**

Features

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

Terminals

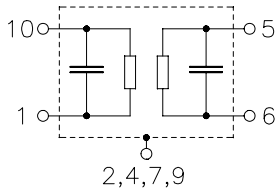
- Gold plated



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 **S**ensitive **D**evice (**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	

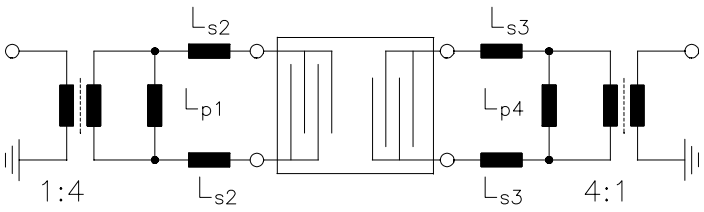
Characteristics

Operating temperature: T = 0 - 70 ˚C
Terminating source impedance: Z_S = 200 Ω unbalanced and matching network
Terminating load impedance: Z_L = 200 Ω 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 $\alpha_{rel} \leq 1$ dB	$B_{1,0dB}$	—	0,21	—	MHz
Amplitude ripple in passband	$\Delta\alpha$				
70,92 ... 71,08 MHz		—	±0,6	±1,0	dB
Absolute group delay	τ	2,35	2,50	2,65	µs
Group delay ripple (p-p)	$\Delta\tau$				
70,92 ... 71,08 MHz		—	0,45	1,5	µs
Relative attenuation (relative to α_N)	α_{rel}				
$f_N \pm 200$ kHz ... $f_N \pm 300$ kHz		3	—	—	dB
$f_N \pm 300$ kHz ... $f_N \pm 400$ kHz		13	—	—	dB
$f_N \pm 400$ kHz ... $f_N \pm 700$ kHz		23	—	—	dB
$f_N \pm 700$ kHz ... $f_N \pm 1600$ kHz		31	—	—	dB
@ $f_N \pm 800$ kHz		34	—	—	dB
$f_N \pm 1600$ kHz ... $f_N \pm 6000$ kHz		35	—	—	dB
$f_N \pm 6000$ kHz ... $f_N \pm 35000$ kHz		40	—	—	dB
IM3 level (Input level -14 dBm)					
$f_N \pm 800$ kHz		—	—	-95	dBm
$f_N \pm 1600$ kHz		—	—	-95	dBm
Temperature coefficient of frequency [1]	TC_f	—	– 0,033	—	ppm/K²
Turnover temperature	T_0	—	10	—	˚C

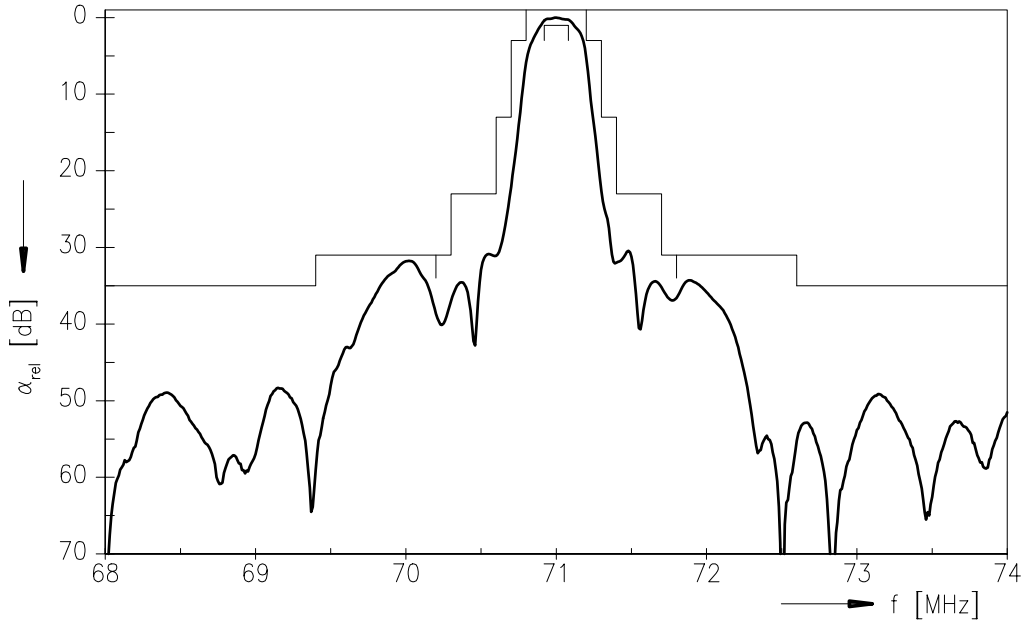
[1] Temperature dependance of f_c: $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$

Matching network:

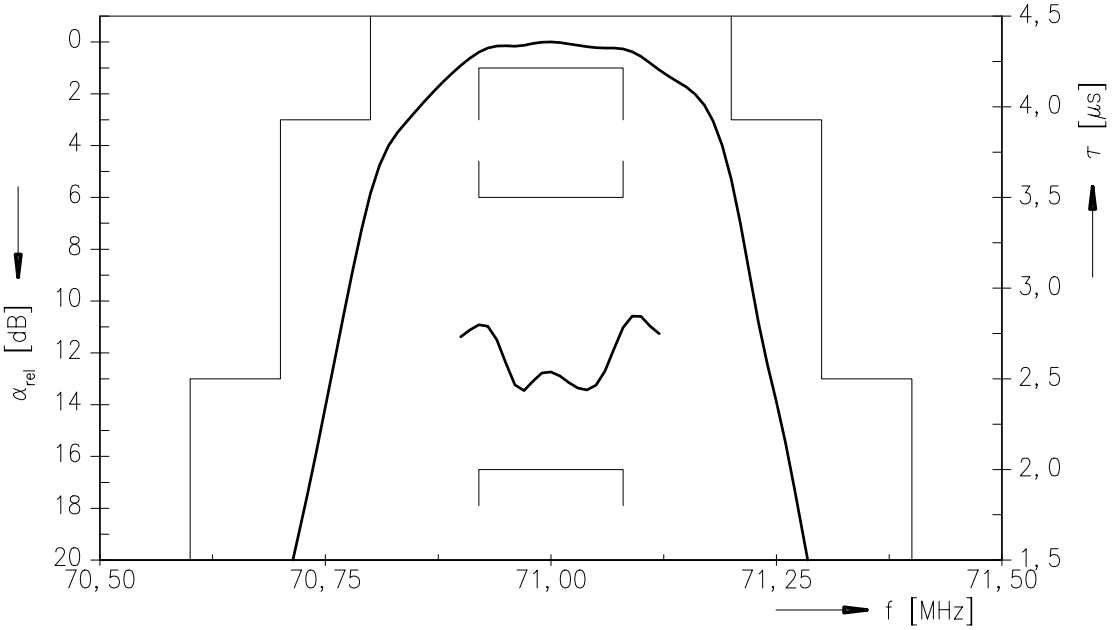


Lp1=120 nH
Ls2=120 nH
Ls3=220 nH
Lp4=180 nH

Normalized frequency response



Normalized frequency response (pass band)



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