EPCOS

SAW Components

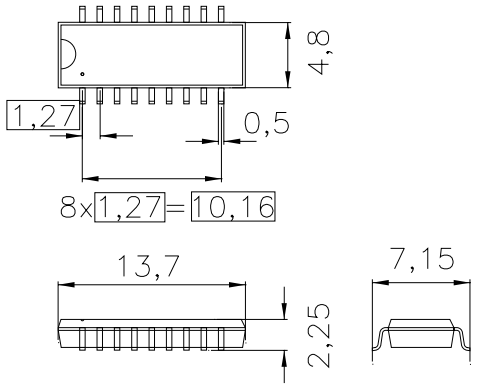
Data Sheet B 8110 L

Data Sheet

duroplast package **DIP18D**

Features

- IF filter for cordless application
- Channel selection in DECT system
- Low group delay ripple
- **S**urface **M**ounted **T**echnology (**SMT**)
- Standard IC small outline (SO) package
- Balanced and unbalanced operation possible
- no matching required on 50 Ω



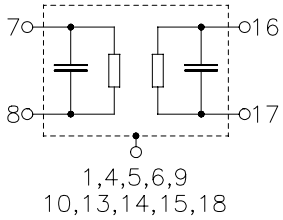
Dimensions in mm, approx. weight 0,5 g

Terminals

- Tinned CuFe alloy

Pin configuration

7	Input
8	Input ground or balanced input
16	Output
17	Output ground or balanced output
1,4,5,6,9,10, 13,14,15,18	Chip carrier – ground
2,3,11,12	not connected



Type	Ordering code	Marking and Package according to	Packing according to
B8110L	B39111-B8110-L100	C61157-A2-A4	F61074-V8058-Z000

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

Maximum ratings

Operable temperature range	T_A	–40/+65	˚C	
Storage temperature range	T_{stg}	–40/+85	˚C	
DC voltage	V_{DC}	0	V	
Source power	P_s	10	dBm	

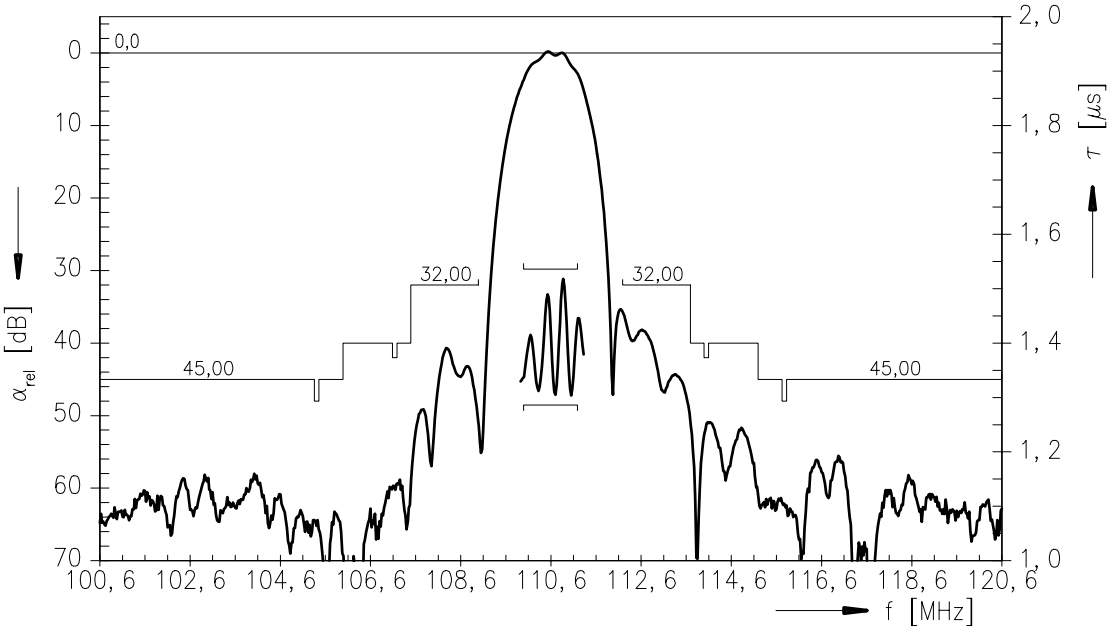
Data Sheet

Characteristics

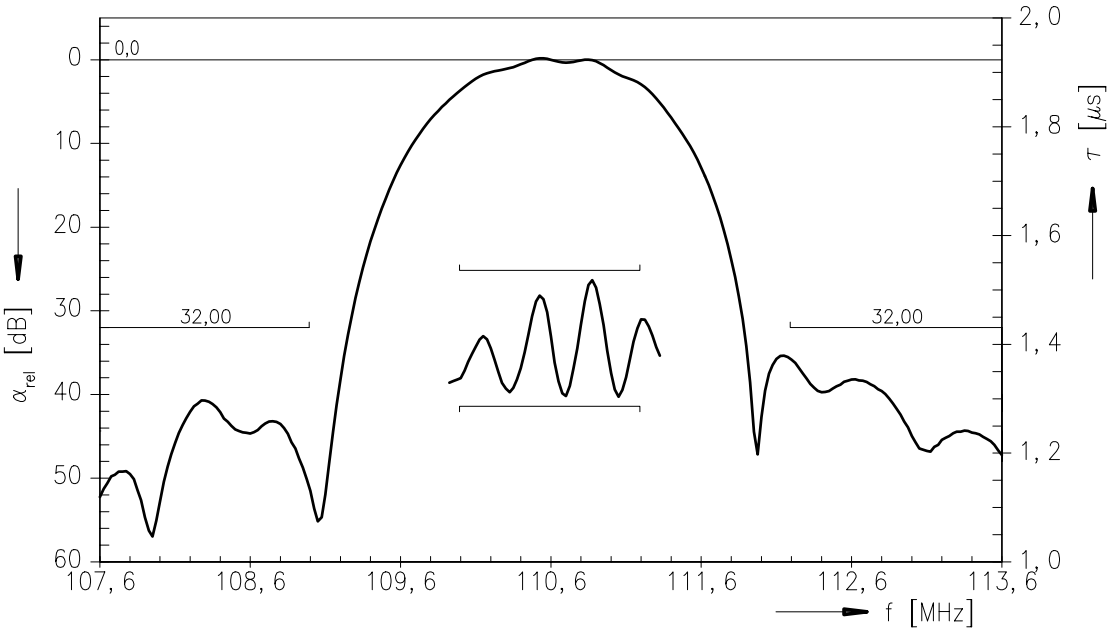
Reference temperature: T = +25 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Nominal frequency	f_N	—	110,59	—	MHz
Center frequency (center frequency between 10 dB points)	f_c	110,51	110,59	110,67	MHz
Minimum insertion attenuation	α_{min}	—	16,5	17,5	dB
Passband width	B_{3dB}	—	1,15	—	MHz
	B_{30dB}	—	2,57	—	MHz
Group delay ripple (p-p)	$\Delta\tau$				
f_N - 600 kHz ... f_N + 600 kHz		—	180	250	ns
Relative attenuation (relative to α_N)	α_{rel}				
$f_N \pm 1{,}6$ MHz ... $f_N \pm 3{,}1$ MHz		32	36	—	dB
$f_N \pm 3{,}1$ MHz ... $f_N \pm 4{,}6$ MHz		40	52	—	dB
$f_N \pm 4{,}6$ MHz ... $f_N \pm 20$ MHz		45	57	—	dB
$f_N \pm$ 1,728 MHz		32	37	—	dB
$f_N \pm 2 \times 1{,}728$ MHz		42	57	—	dB
$f_N \pm 3 \times 1{,}728$ MHz		48	63	—	dB
Impedance in pass band					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	850 ‖ 6,8	—	Ω ‖ pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	100 ‖ 25	—	Ω ‖ pF
Temperature coefficient of frequency	TC_f	—	– 18	—	ppm/K

Transfer function:



Transfer function (pass band):



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