



Withdrawn Products

The following products presented in this data sheet are being withdrawn:

B39111B8110L100

Date of withdrawal: 19-MAY-04

Deadline for last orders: 31-DEC-04

Last shipments: 31-MAR-04

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of the sales offices are given on the Internet at www.epcos.com/sales.



SAW Components

Data Sheet B 8110 L





SAW Components

B 8110 L

Bandpass Filter

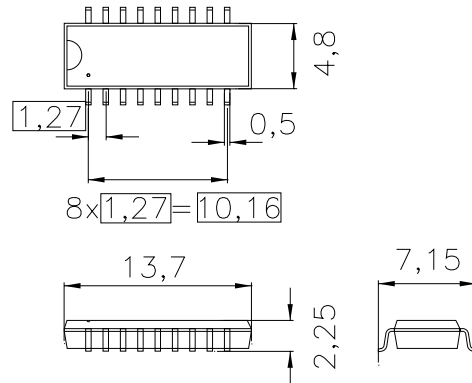
110,59 MHz

Data Sheet

duroplast package **DIP18D**

Features

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



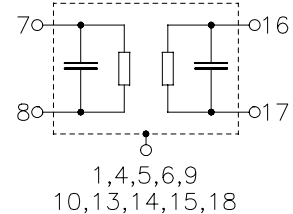
Terminals

- Tinned CuFe alloy

Dimensions in mm, approx. weight 0,5 g

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 Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_A	-40/+65	$^{\circ}\text{C}$
Storage temperature range	T_{stg}	-40/+85	$^{\circ}\text{C}$
DC voltage	V_{DC}	0	V
Source power	P_s	10	dBm



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Characteristics

Reference temperature: $T = +25\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

		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	$B_{3\text{dB}}$	—	1,15	—	MHz
	$B_{30\text{dB}}$	—	2,57	—	MHz
Group delay ripple (p-p) $f_N - 600\text{ kHz} \quad \dots \quad f_N + 600\text{ kHz}$	$\Delta\tau$	—	180	250	ns
Relative attenuation (relative to α_N)	α_{rel}				
$f_N \pm 1,6\text{ MHz} \quad \dots \quad f_N \pm 3,1\text{ MHz}$		32	36	—	dB
$f_N \pm 3,1\text{ MHz} \quad \dots \quad f_N \pm 4,6\text{ MHz}$		40	52	—	dB
$f_N \pm 4,6\text{ MHz} \quad \dots \quad f_N \pm 20\text{ MHz}$		45	57	—	dB
$f_N \pm 1,728\text{ MHz}$		32	37	—	dB
$f_N \pm 2 \times 1,728\text{ MHz}$		42	57	—	dB
$f_N \pm 3 \times 1,728\text{ MHz}$		48	63	—	dB
Impedance in pass band					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	850 \parallel 6,8	—	$\Omega \parallel \text{pF}$
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	100 \parallel 25	—	$\Omega \parallel \text{pF}$
Temperature coefficient of frequency	TC_f	—	- 18	—	ppm/K



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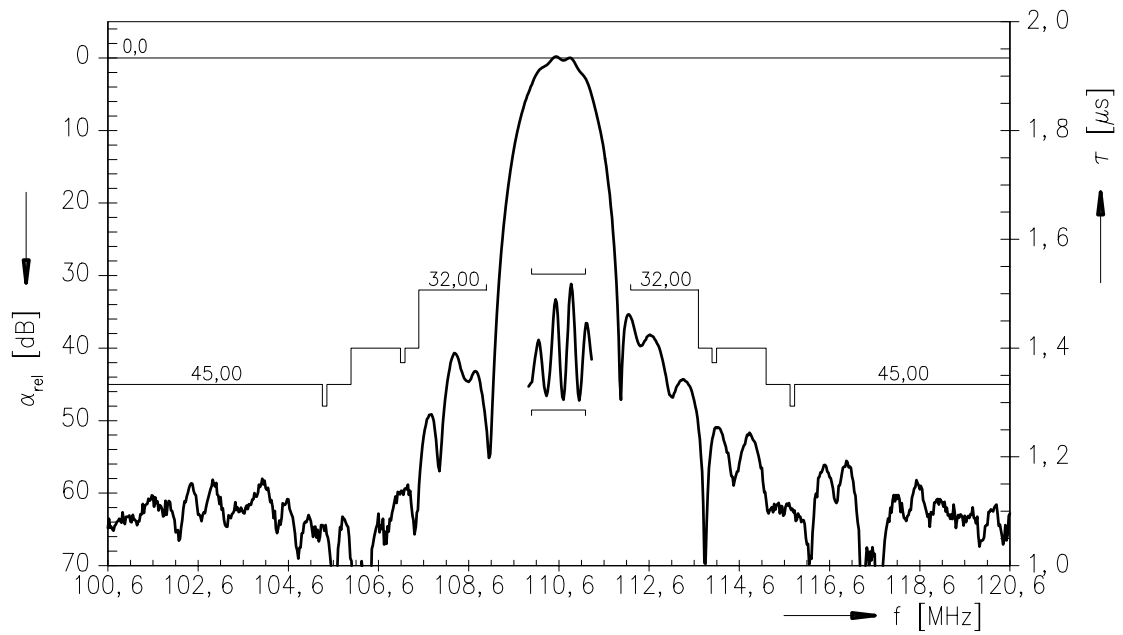
B 8110 L

Bandpass Filter

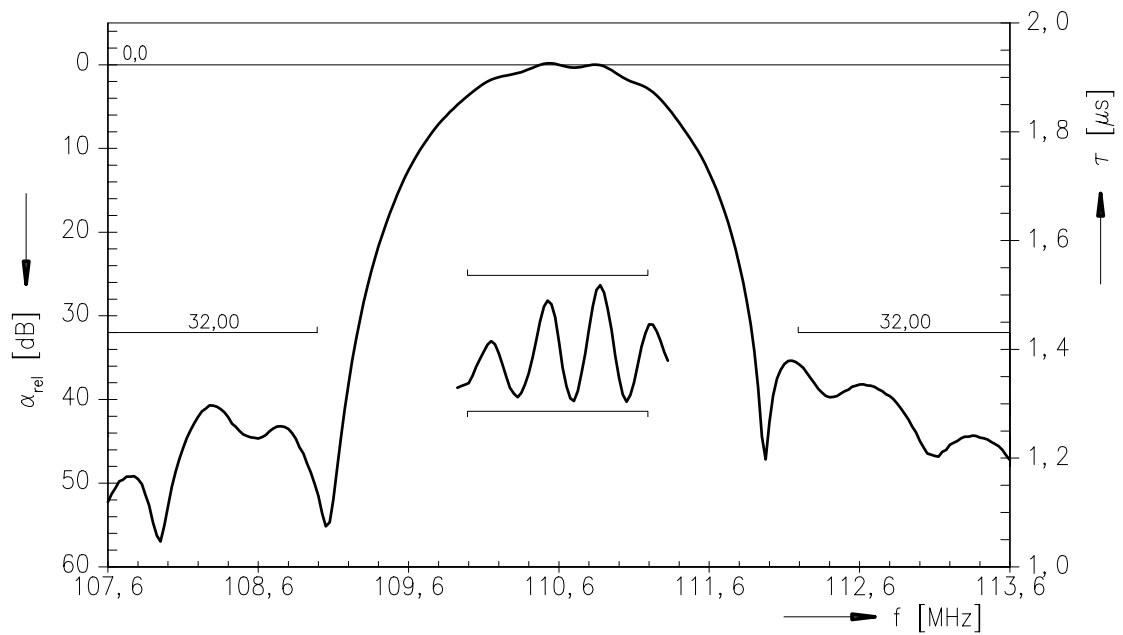
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Transfer function:



Transfer function (pass band):





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Surface Acoustic Wave Components Division, SAW CE MM PD

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