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IF Filters for Cordless Phones and ISM-Band Application

Series/Type: **B8110**

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39111B8110L100		2004-05-19	2004-12-31	2004-03-31

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.

B39111B8110L100

Date of withdrawal: 19-MAY-04

Deadline for last orders: 31-DEC-04

Last shipments: 31-MAR-04

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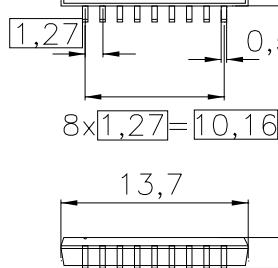
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SAW Components

Data Sheet B 8110 L



- Surface mounted technology (SMT)
- Standard IC small outline (SO) package
- Balanced and unbalanced operation possible
- no matching required on 50 Ω



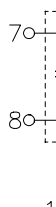
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- Tinned CuFe alloy

Dimensions in mm, unless otherwise specified

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	Packaging according to
B8110L	B39111-B8110-L100	C61157-A2-A4	F61074

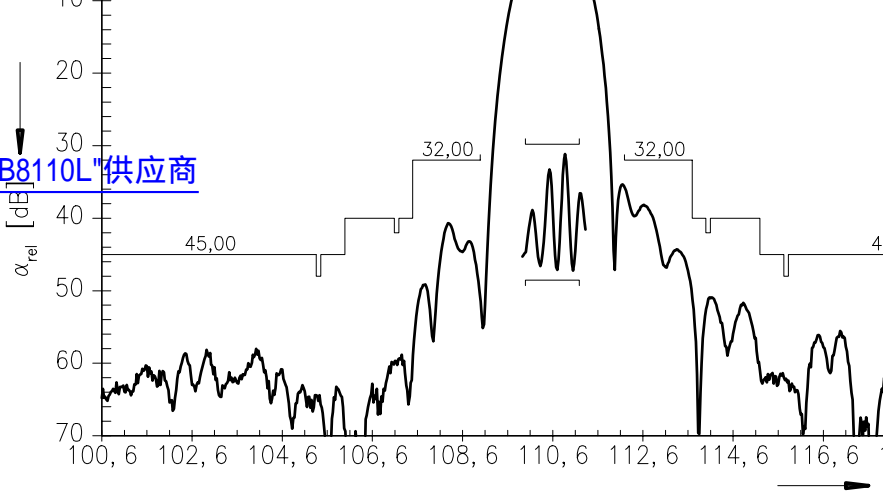
Electrostatic Sensitive Device (ESD)

Maximum ratings

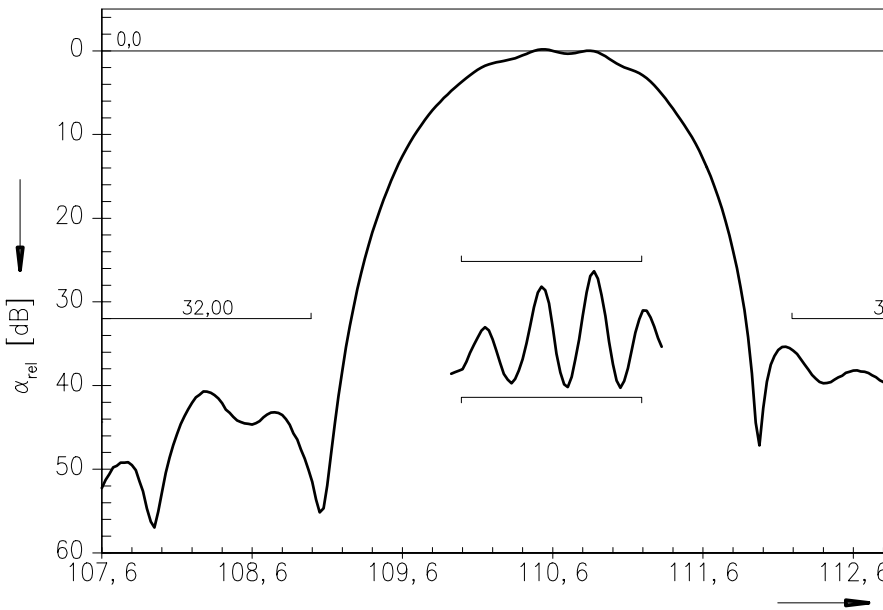
Operable temperature range	T_A	-40/+65	$^{\circ}\text{C}$	
Storage temperature range	T_{stg}	-40/+85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
Source power	P_s	10	dBm	

Nominal frequency	f_N	—	110,59
Center frequency (center frequency between 10 dB points)	f_c	110,51	110,59
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Minimum insertion attenuation	α_{\min}	—	16,5
Passband width	$B_{3\text{dB}}$	—	1,15
	$B_{30\text{dB}}$	—	2,57
Group delay ripple (p-p) $f_N - 600 \text{ kHz} \quad \dots \quad f_N + 600 \text{ kHz}$	$\Delta\tau$	—	180
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
$f_N \pm 3,1 \text{ MHz} \quad \dots \quad f_N \pm 4,6 \text{ MHz}$		40	52
$f_N \pm 4,6 \text{ MHz} \quad \dots \quad f_N \pm 20 \text{ MHz}$		45	57
$f_N \pm 1,728 \text{ MHz}$		32	37
$f_N \pm 2 \times 1,728 \text{ MHz}$		42	57
$f_N \pm 3 \times 1,728 \text{ MHz}$		48	63
Impedance in pass band Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$ Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	850 \parallel 6,8 100 \parallel 25
Temperature coefficient of frequency	TC_f	—	- 18

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Transfer function (pass band):



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