

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The following products presented in this data sheet are being withdrawn.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



Withdrawn Products

The following products presented in this data sheet are being withdrawn: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

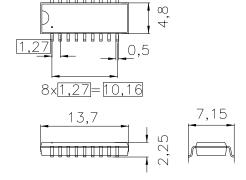
duroplast package DIP18D

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

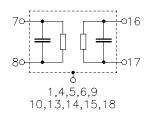
16 Output

17 Output ground or balanced output

1,4,5,6,9,10, Chip carrier – ground

13,14,15,18

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	°C
Storage temperature range	$T_{\rm stg}$	-40/+85	°C
DC voltage	$V_{\rm DC}$	0	V
Source power	P_{s}	10	dBm



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Characteristics

 $\begin{array}{lll} \mbox{Reference temperature:} & T & = +25 \ ^{\circ}\mbox{C} \\ \mbox{Terminating source impedance:} & Z_{\rm S} & = 50 \ \Omega \\ \mbox{Terminating load impedance:} & Z_{\rm L} & = 50 \ \Omega \end{array}$

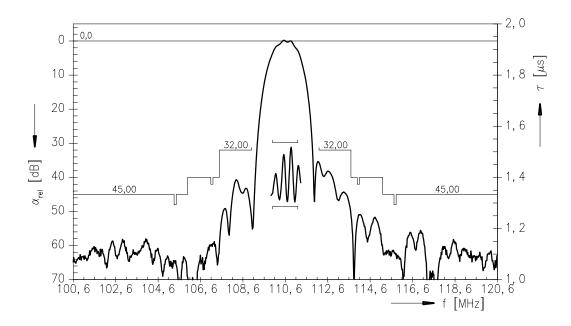
		min.	typ.	max.	
Nominal frequency	f _N	_	110,59	_	MHz
Center frequency (center frequency between 10 dB points)		110,51	110,59	110,67	MHz
Minimum insertion attenuation		_	16,5	17,5	dB
Passband width	$B_{ m 3dB}$ $B_{ m 30dB}$	_ _	1,15 2,57	_ _	MHz MHz
Group delay ripple (p-p) $f_{\rm N} \mbox{ - }600 \mbox{ kHz} \qquad \dots \qquad f_{\rm N} \mbox{ + }600 \mbox{ kHz}$	Δτ	_	180	250	ns
Relative attenuation (relative to $\alpha_{\rm N}$) $f_{\rm N} \pm 1,6 \ {\rm MHz} \qquad \qquad f_{\rm N} \pm 3,1 \ {\rm MHz}$ $f_{\rm N} \pm 3,1 \ {\rm MHz} \qquad \qquad f_{\rm N} \pm 4,6 \ {\rm MHz}$ $f_{\rm N} \pm 4,6 \ {\rm MHz} \qquad \qquad f_{\rm N} \pm 20 \ {\rm MHz}$ $f_{\rm N} \pm 1,728 \ {\rm MHz}$ $f_{\rm N} \pm 2\times 1,728 \ {\rm MHz}$ $f_{\rm N} \pm 3\times 1,728 \ {\rm MHz}$	$lpha_{rel}$	32 40 45 32 42 48	36 52 57 37 57 63	_ _ _ _ _	dB dB dB dB
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 6,8 100 25		$\Omega \parallel pF$ $\Omega \parallel pF$
Temperature coefficient of frequency		_	- 18	_	ppm/K



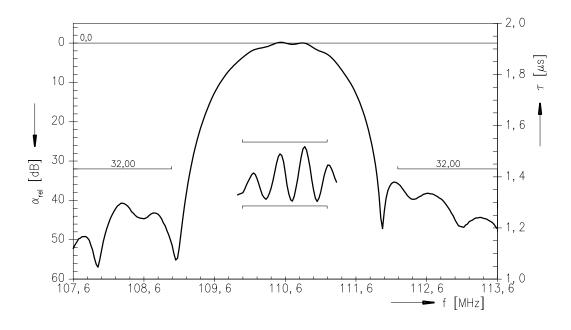
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Transfer function:



Transfer function (pass band):





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Published by EPCOS AG Surface Acoustic Wave Components Division, SAW CE MM PD P.O. Box 80 17 09, D-81617 München

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For questions on technology, prices and delivery please contact the sales offices of EPCOS AG or the international representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our sales offices.