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IF Filters for Cordless Phones and ISM-Band Application

Series/Type: **B8100**

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39111B8100L100	B39111B4542Z910	2004-05-19	2004-09-30	2004-12-31

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.



The following products presented in this data sheet are being withdrawn

B39111B8100L100

Date of withdrawal:	19-MAY-04
Deadline for last orders:	30-SEP-04
Last shipments:	31-DEC-04

For further information please contact your nearest EPCOS sales office or your distributor. We recommend you in selecting a suitable substitute. The addresses of the sales offices are listed at www.epcos.com/sales.

SAW Components

Data Sheet B 8100

Data Sheet

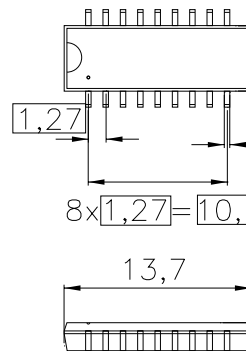


EPCCO

- 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

Terminals

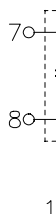
- Tinned CuFe alloy



Dimensions in mm, ±0,1

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	Packaging according to
B8100	B39111-B8100-L100	C61157-A2-A4	F61074

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	-25/+65	°C
Storage temperature range	T_{stg}	-40/+85	°C
DC voltage	V_{DC}	5	V
Source power	P_s	10	dBm

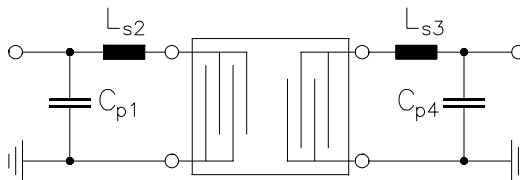
Terminating source impedance:
 Terminating load impedance:

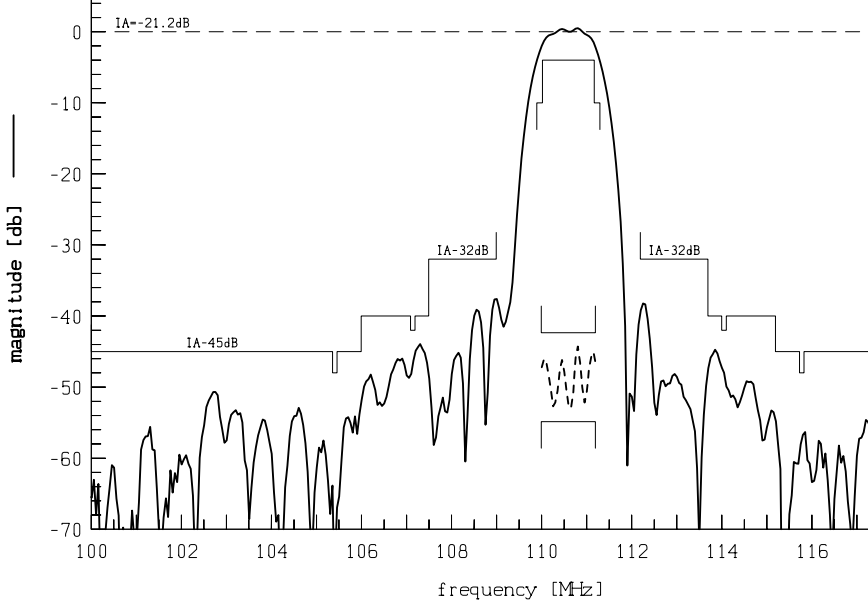
$$Z_S = 50 \Omega (500 \Omega \parallel 240 \text{ nH})$$

$$Z_L = 50 \Omega (140 \Omega \parallel 110 \text{ nH}^*)$$

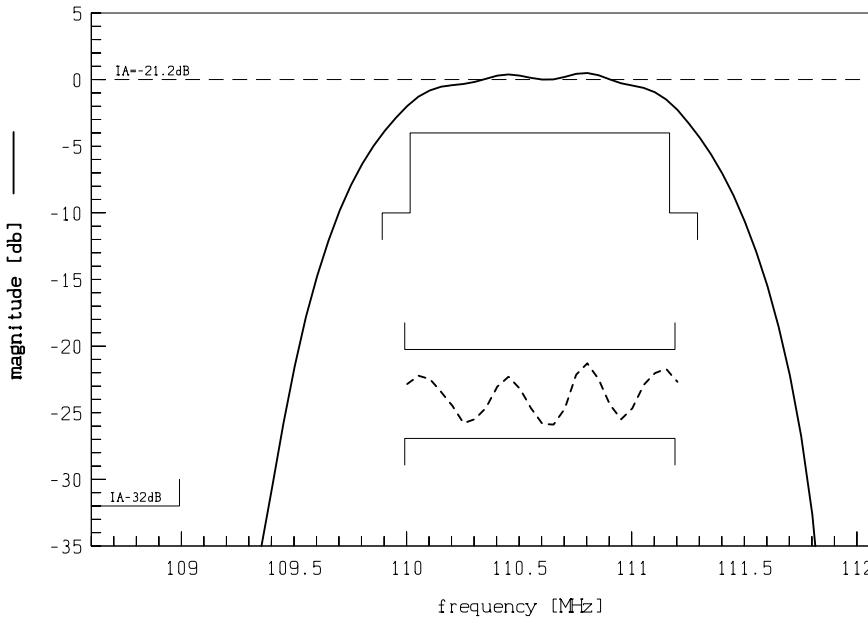
		min.	typ.
Nominal frequency	f_N	—	110,59
Center frequency (center frequency between 10 dB points)	f_c	110,48	110,59
Insertion attenuation at f_N (including losses in matching network)	α_N	—	20,9 (13,5*)
Passband width	$B_{3\text{dB}}$	—	1,28
	$B_{30\text{dB}}$	—	2,40
Group delay ripple (p-p) $f_N - 600 \text{ kHz} \quad \dots \quad f_N + 600 \text{ kHz}$	$\Delta\tau$	—	180
		—	(300*)
Relative attenuation (relative to α_N) $f_N - 576 \text{ kHz} \quad \dots \quad f_N + 576 \text{ kHz}$ $f_N \pm 576 \text{ kHz} \quad \dots \quad f_N \pm 700 \text{ kHz}$ $f_N \pm 1,6 \text{ MHz} \quad \dots \quad f_N \pm 3,1 \text{ MHz}$ $f_N \pm 3,1 \text{ MHz} \quad \dots \quad f_N \pm 4,6 \text{ MHz}$ $f_N \pm 4,6 \text{ MHz} \quad \dots \quad f_N \pm 20 \text{ MHz}$ $f_N \pm 1,728 \text{ MHz}$ $f_N \pm 2 \times 1,728 \text{ MHz}$ $f_N \pm 3 \times 1,728 \text{ MHz}$	α_{rel}	—	2,0
		—	—
		32	38
		40	44
		45	50
		32	38
		42	47
		48	53
Impedance at f_N Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$ Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	600 \parallel 8,5 140 \parallel 19,0
Temperature coefficient of frequency	TC_f	—	- 18

*) with matching network to 50 Ω (element values depend on PCB layout):



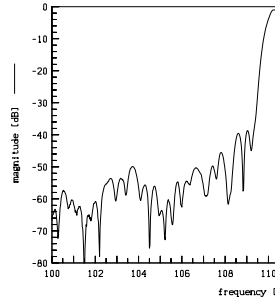
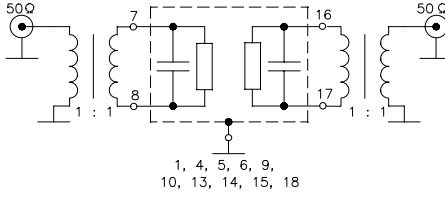


Transfer function (pass band):

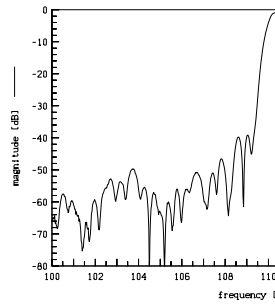
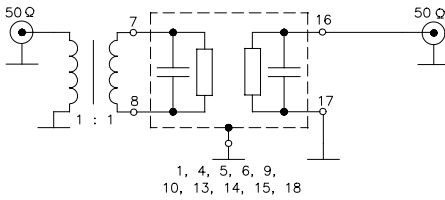


For optimum performance use the following pin configurations.

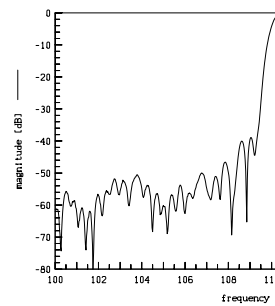
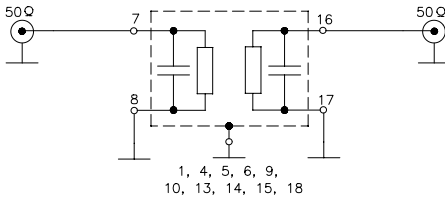
Balanced-balanced operation:



Balanced-unbalanced operation:

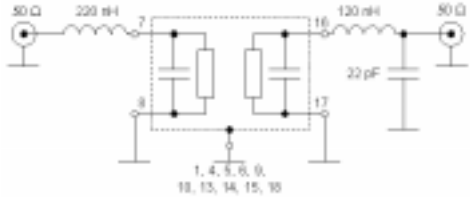


Unbalanced-unbalanced operation

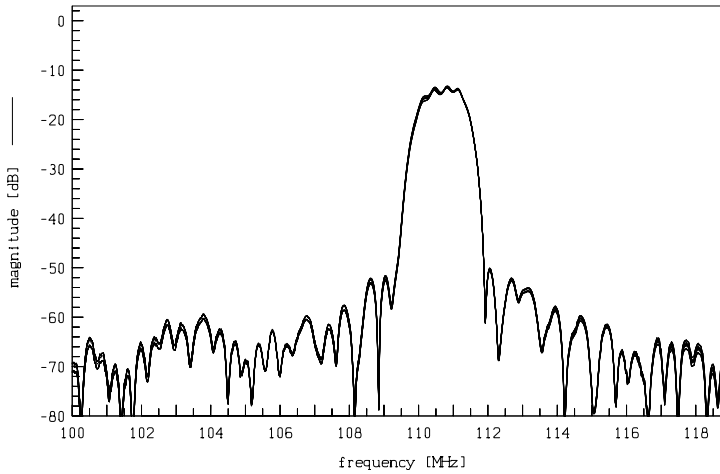


Matching Stability / Variation of the Matching Network:

All matching-elements changed by $\pm 10\%$ (simulation).

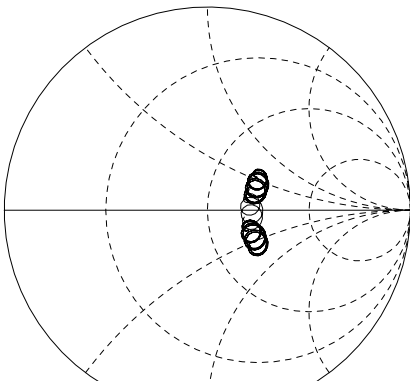


Transfer function of matched filter (S_{21}):



Impedance variation of matched filter (in passband):

S_{11} :



S_{22} :

