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The following products presented in this data sheet are being withdrawn.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

B39111B8100L100

Date of withdrawal: 19-MAY-04

Deadline for last orders: 30-SEP-04

Last shipments: 31-DEC-04

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For further information please contact your nearest EPCOS sales office or your distributor. Please inform us in writing of your decision on the proposed substitute. We will be happy to assist you in selecting a suitable substitute. The addresses of the sales offices are listed on the back of this document or at www.epcos.com/sales.

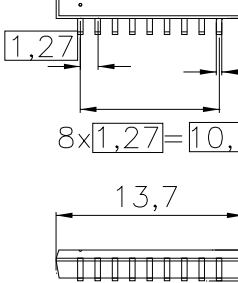
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SAW Components

Data Sheet B 8100



- Surface mounted Technology (SMT)
- Standard IC small outline (SO) package
- Balanced and unbalanced operation possible



Terminals

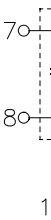
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■ 0.1mm thick alloy

Dimensions in mm, 0.01mm

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)

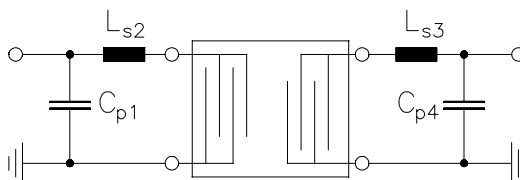
Maximum ratings

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	

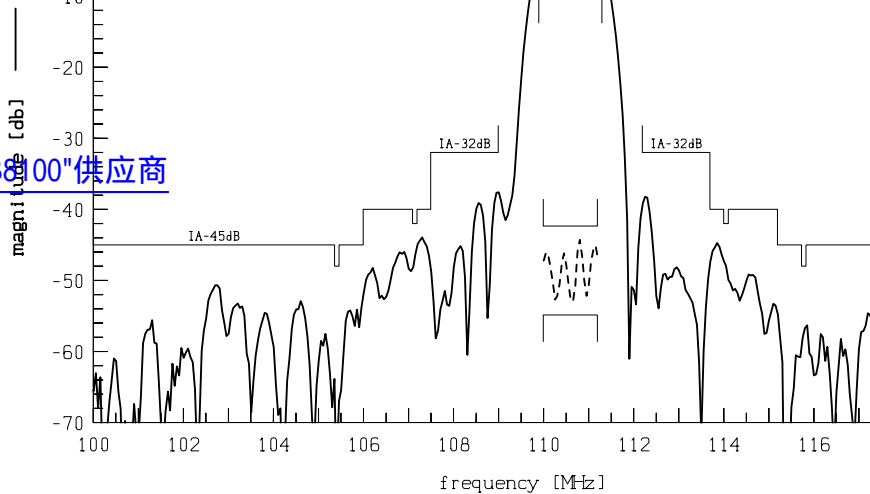
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Nominal frequency	f_N	—	110,59
Center frequency (center frequency between 10 dB points)	f_c	110,48	110,59
Insertion attenuation at f_N (including losses in matching network)	α_N	—	20,9 (13,5*)
Passband width	B_{3dB} B_{30dB}	— —	1,28 2,40
Group delay 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}	— — 32 40 45 32 42 48	— 2,0 — 38 44 50 38 47 53
Impedance at f_N Input: $Z_{IN} = R_{IN} \parallel C_{IN}$ Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		— —	600 \parallel 8,5 140 \parallel 19,0
Temperature coefficient of frequency	TC_f	—	– 18

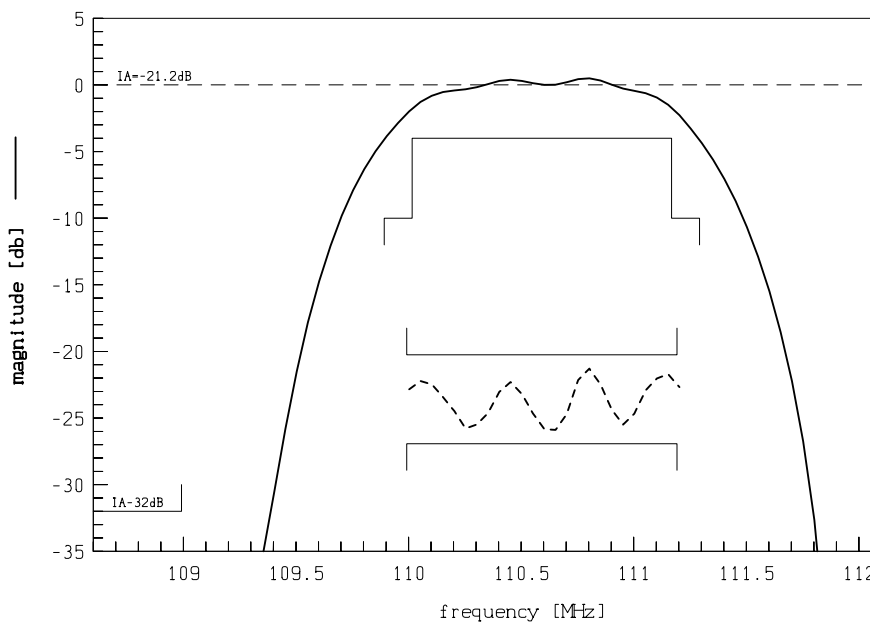
*) with matching network to 50 Ω (element values depend on PCB layout):



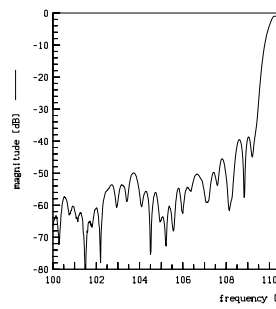
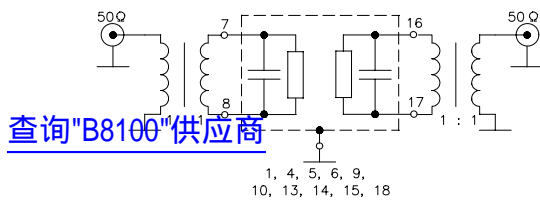
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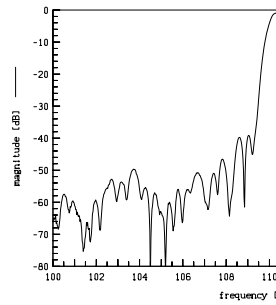
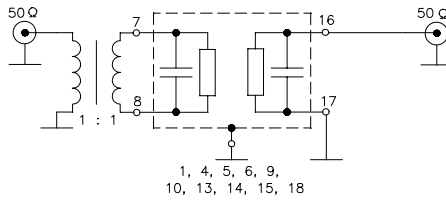
Transfer function (pass band):



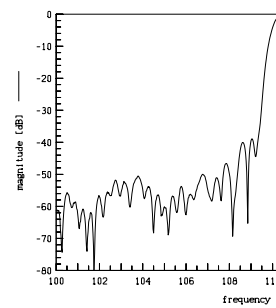
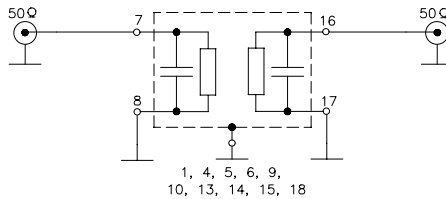
Balanced-balanced operation:



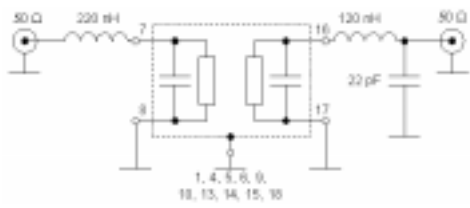
Balanced-unbalanced operation:



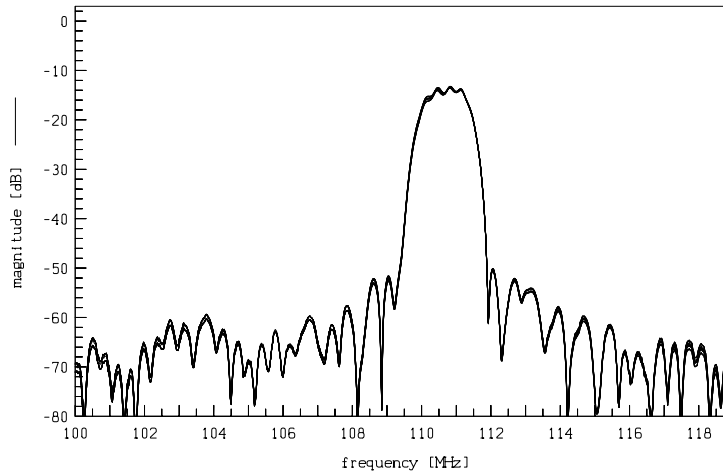
Unbalanced-unbalanced operation



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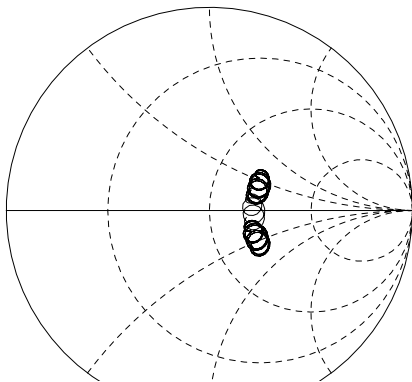


Transfer function of matched filter (S_{21}):



Impedance variation of matched filter (in passband):

S_{11} :



S_{22} :

