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Wireless Local Loop/Broadband Access Filters

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39111B4540Z710		2006-12-01	2007-02-28	2007-05-31

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.

SAW Components

Data Sheet B4540

Data Sheet

EP CO

- Bandpass filter for cordless telephone
- Channel selection in DECT system
- Ceramic package for **Surface Mounted Technology (SMT)**

Terminals

- Ni, gold-plated

Dimensions in mm, a

Pin configuration

10	Input	40-
9	Input ground or balanced input	
5	Output	
4	Output ground or balanced output	50-
1,3,6,8	Case - ground	
2,7	Not connected	

Type	Ordering code	Marking and Package according to	Pack accor
B4540	B39111-B4540-Z710	C61157-A7-A49	F6107

Electrostatic Sensitive Device (ESD)

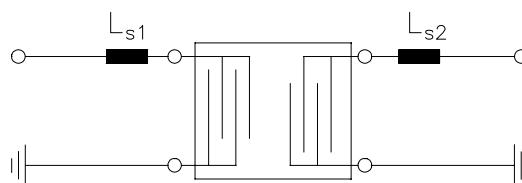
Maximum ratings

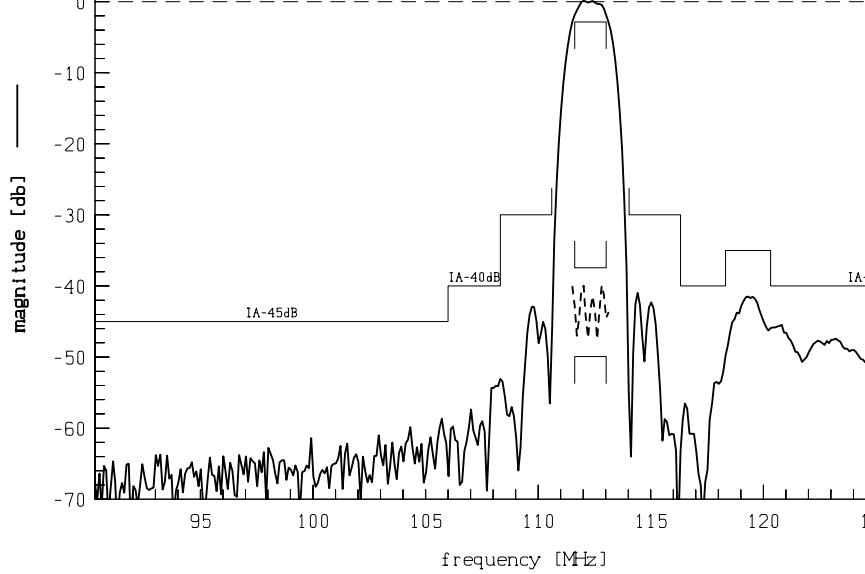
Operable temperature range	T	- 40/+ 85	°C	
Storage temperature range	T_{stg}	- 40/+ 85	°C	
DC voltage	V_{DC}	0	V	
Source power	P_s	10	dBm	source impe

		min.	typ.
Nominal frequency	f_N	—	112,32
Insertion attenuation at f_N (including losses in matching network)	α_N	—	13,5
Reference level for the following data			
Pass bandwidth	$B_{3\text{dB}}$	—	1,6
Group delay ripple (p-p)	$\Delta\tau$	—	100
Relative attenuation (relative to α_N)	α_{rel}		
$f_N - 30,00 \text{ MHz} \dots f_N - 6,32 \text{ MHz}$	45	59	
$f_N - 6,32 \text{ MHz} \dots f_N - 4,00 \text{ MHz}$	40	53	
$f_N - 4,00 \text{ MHz} \dots f_N - 1,72 \text{ MHz}$	30	42	
$f_N + 1,72 \text{ MHz} \dots f_N + 4,00 \text{ MHz}$	30	41	
$f_N + 4,00 \text{ MHz} \dots f_N + 6,00 \text{ MHz}$	40	50	
$f_N + 6,00 \text{ MHz} \dots f_N + 8,00 \text{ MHz}$	35	41	
$f_N + 8,00 \text{ MHz} \dots f_N + 30,00 \text{ MHz}$	40	45	
$f_N + 17,28 \text{ MHz}$	45	57	
Impedance at f_N			
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$	—	3,9 \parallel 5,0	
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$	—	3,3 \parallel 6,1	
Temperature coefficient of frequency ¹⁾	TC_f	—	-0,03
Turnover temperature	T_0	—	30

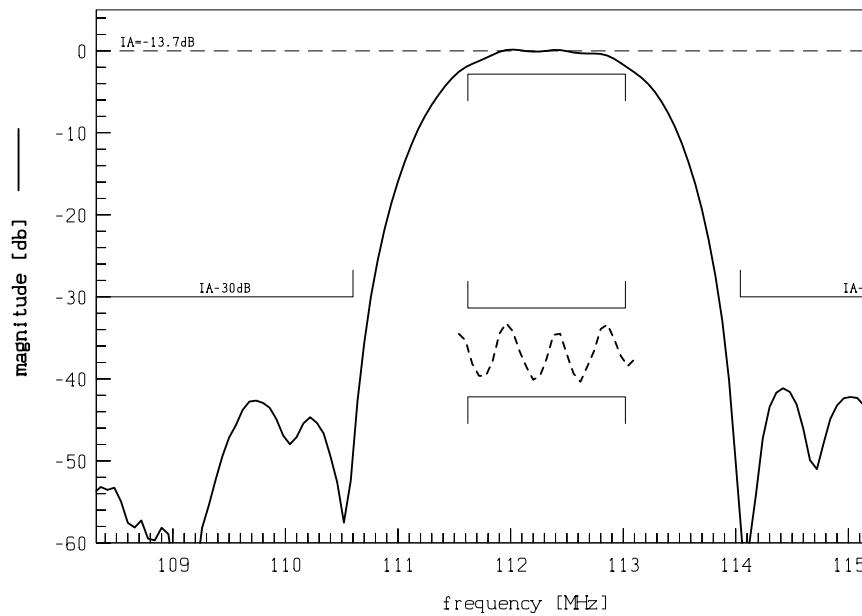
¹⁾ Temperature dependance of f_c : $f_c(T) = f_c(T_0)(1 + TC_f(T - T_0)^2)$

Matching network to 50 Ω (element values depend on pcb layout)





Transfer function (pass band)



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