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EPCOS

IF Filters for CDMA Cellular Phones

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39131B4957H710		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.

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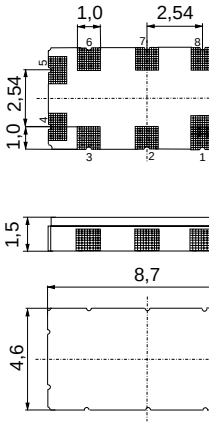
SAW Components

Data Sheet B4957

- IF filter for mobile telephone
- Channel selection in CDMA systems
- High rejection, small size
- Low insertion attenuation, low amplitude ripple
- Filter surface passivated
- Package for **S**urface **M**ounted **T**echnology (**SMT**)



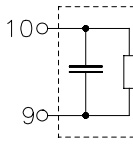
Dimensions in mm, a

Terminals

- Gold plated

Pin configuration

9, 10	Balanced Output
4	Input or Input Ground
5	Input
2, 7	Ground
1, 3, 6, 8	Case ground



1,

Type	Ordering code	Marking and Package according to	Packi accor
B4957	**B39131-B4957-H710**	C61157-A7-A127	F6107

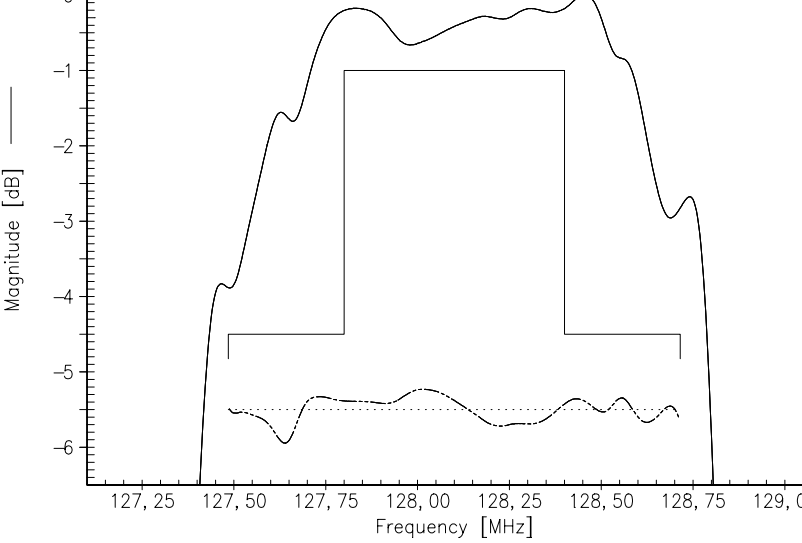
Electrostatic **S**ensitive **D**evice (**ESD**)

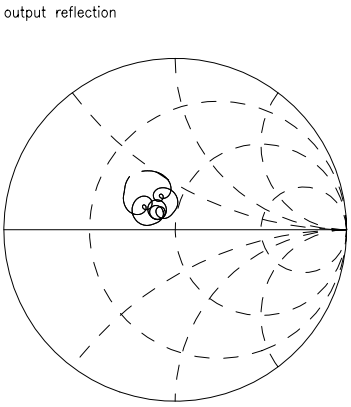
Maximum ratings

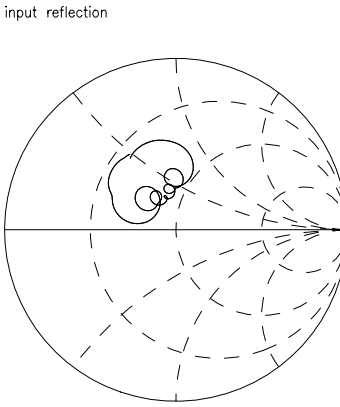
Operable temperature range	T	– 40/+ 85	˚C	
Storage temperature range	T_{stg}	– 40/+ 85	˚C	
DC voltage	V_{DC}	5	V	
Source power	P_s	10	dBm	

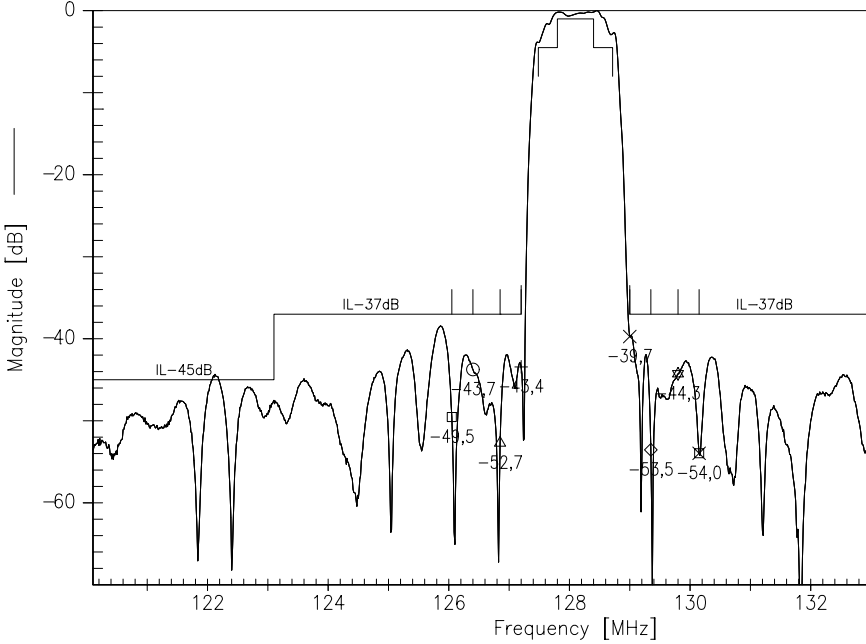
		min.	typ.
Nominal frequency	f_N	—	128,1
Minimum insertion attenuation (including loss in matching network without loss in balun)	α_{min}	—	9,2
Amplitude ripple	$\Delta\alpha$		
f_N – 0,3 MHz ... f_N + 0,3 MHz		—	0,6
Phase linearity (rms deviation)			
f_N – 0,615MHz ... f_N + 0,615 MHz		—	1,6
Relative attenuation (relative to α_{min})	α_{rel}		
$f_N \pm 0{,}615$MHz		—	4,0
10,0 MHz ... f_N – 5,0 MHz		45[1)]	48
f_N – 5,0 MHz ... f_N – 0,9 MHz		37	39
f_N – 2,05 MHz		37	49
f_N – 1,7 MHz		37	44
f_N – 1,25 MHz		37	52
f_N – 0,9 MHz		37	43
f_N + 0,9 MHz		37	40
f_N + 1,25 MHz		37	53
f_N + 1,7 MHz		37	44
f_N + 2,05 MHz		37	54
f_N + 0,9 MHz ... f_N + 5,0 MHz		37	40
f_N + 5,0 MHz ... f_N + 70,0 MHz		45[2)]	48
172,485 MHz ... 173,715 MHz		60	75
207,485 MHz ... 208,715 MHz		48	50

1) exception: 122,1 MHz +/- 200 kHz
2) exception: 135,2 MHz +/- 300 kHz

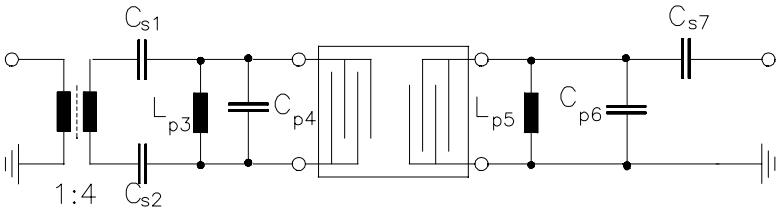

Magnitude [dB]
-1
-2
-3
-4
-5
-6
127, 25
127, 50
127, 75
128, 00
128, 25
128, 50
128, 75
Frequency [MHz]


output reflection


input reflection



Test matching network to 50Ω
(Element values depend on pcb layout. Input is at the right hand side)



C_{s1} =
C_{s2} =
L_{p3} =
L_{p5} =
C_{s7} =

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