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The following products presented in this data sheet are being withdrawn.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

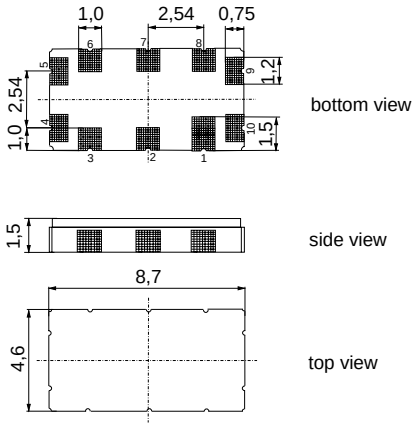
SAW Components

Data Sheet B4957

Features

SMD package **QCC10E**

- 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**)



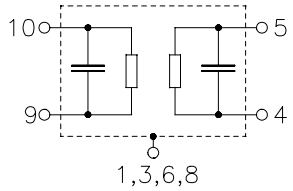
Dimensions in mm, approx. weight 0,23 g

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



Type	Ordering code	Marking and Package according to	Packing according to
B4957	**B39131-B4957-H710**	C61157-A7-A127	F61074-V8192-Z000

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

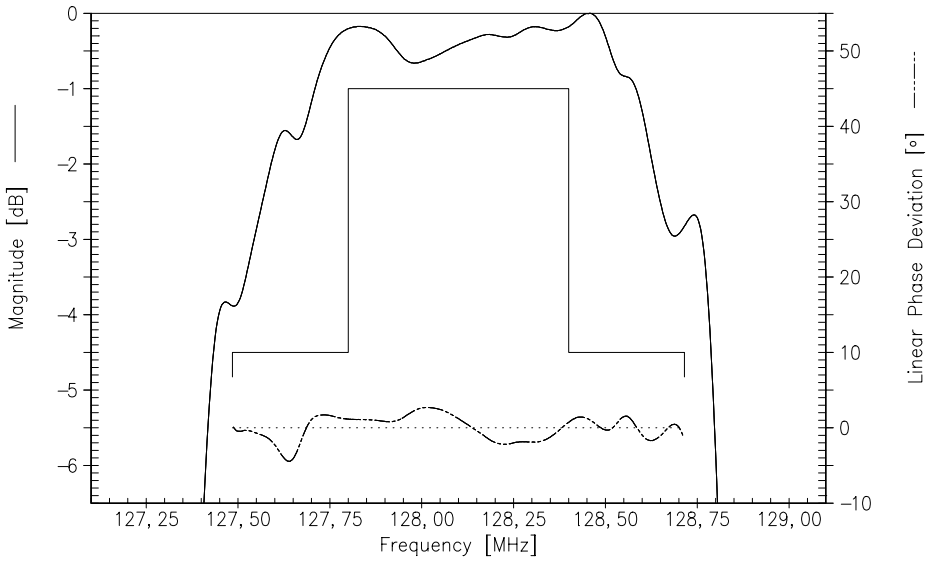
Data Sheet SMD

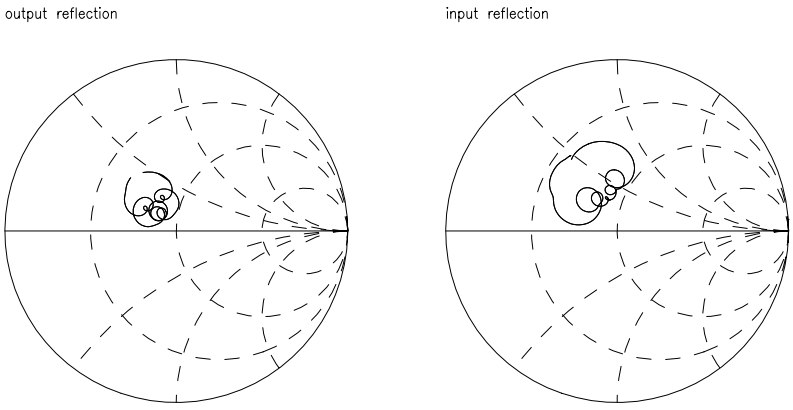
Operating temperature range: T = -30˚C ... +85 ˚C
Terminating source impedance: Z_S = 1370 Ω || 170 nH
Terminating load impedance: Z_L = 760 Ω || 119 nH

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

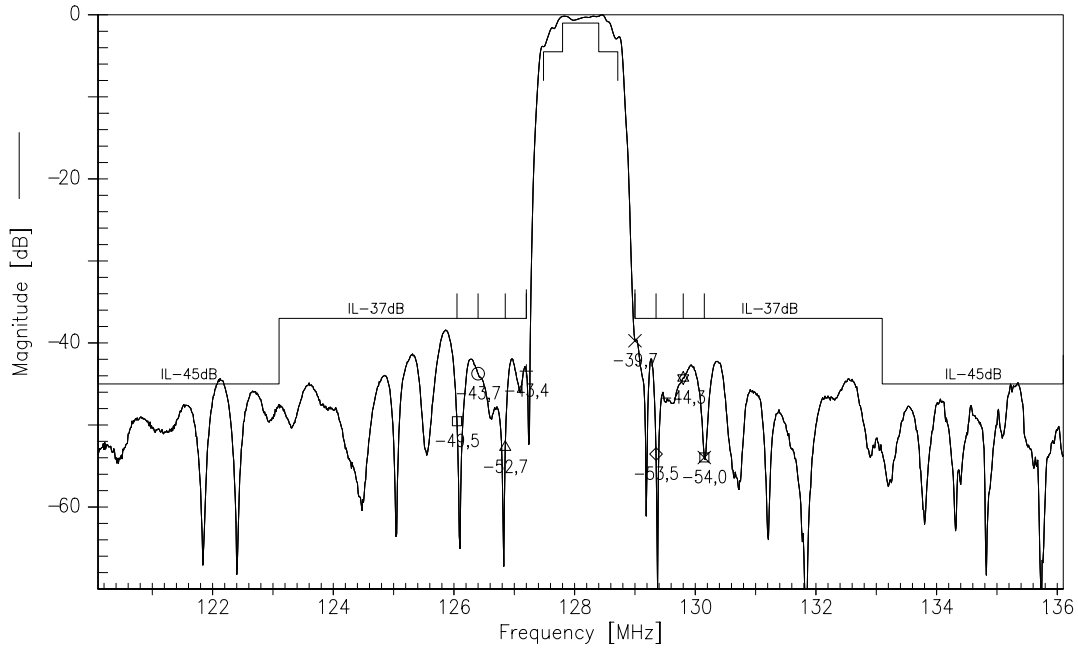
1) exception: 122,1 MHz +/- 200 kHz
2) exception: 135,2 MHz +/- 300 kHz

Transfer function: passband, single ended (pin 5) - balanced (pins 9,10)

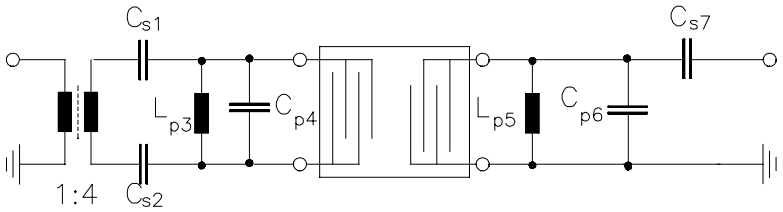




Transfer function: wide band, single ended (pin 5) - balanced (pins 9,10)



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



C_{s1} = 5,6 pF
C_{s2} = 6,8 pF
L_{p3} = 82 nH || 5,6 pF
L_{p5} = 68 nH || 2,2 pF
C_{s7} = 6,8 pF

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