



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





SAW filters for infrastructure systems

Series/Type: B3849

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39361B3849U310	B39361B5215H810	2009-09-25	2009-12-31	2010-03-31

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

B3849

Low-Loss Filter

357,1 MHz

Data Sheet

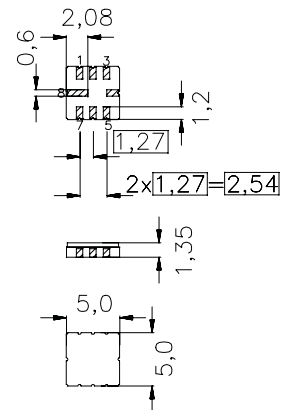
Ceramic package QCC8C

Features

- Low-loss IF filter for UMTS base stations
- 20 MHz usable bandwidth
- Constant group delay
- Ceramic SMD package

Terminals

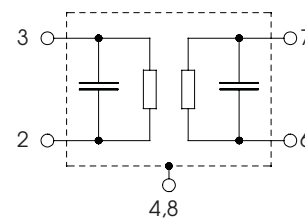
- Gold plated



Dimensions in mm, approx. weight 0,1 g

Pin configuration

- | | |
|------|----------------|
| 3 | Input |
| 2 | Input ground |
| 7 | Output |
| 6 | Output ground |
| 4, 8 | Case ground |
| 1, 5 | To be grounded |



Type	Ordering code	Marking and Package according to	Packing according to
B3849	B39361-B3849-U310	C61157-A7-A56	F61074-V8169-Z000

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	


SAW Components
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Characteristics

Operating temperature range: $T = -35 \dots 85 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$ and matching network
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$ and matching network
 Group delay aperture: 200 kHz

		min.	typ.	max.	
Nominal frequency	f_N	—	357,1	—	MHz
Minimum insertion attenuation	α_{\min}	—	9,7	11,0	dB
Amplitude ripple (p-p) 347,1 ... 367,1 MHz	$\Delta\alpha$	—	0,6	1,0	dB
Pass bandwidth $\alpha_{\text{rel}} \leq 1,0 \text{ dB}$	$B_{1,0\text{dB}}$	—	32	—	MHz
Relative attenuation (relative to α_{\min}) 1,0 ... 332,1 MHz	α_{rel}	35	50	—	dB
382,1 ... 1000,0 MHz		35	42	—	dB
Group delay ripple (p-p) 347,1 ... 367,1 MHz	$\Delta\tau$	—	25	70	ns
Absolute group delay	τ	—	0,5	0,6	μs
1 dB compression 347,1 ... 367,1 MHz		12	—	—	dBm
Input IP3 347,1 ... 367,1 MHz		32	—	—	dBm
Temperature coefficient of frequency	TC_f	—	- 87	—	ppm/K



SAW Components

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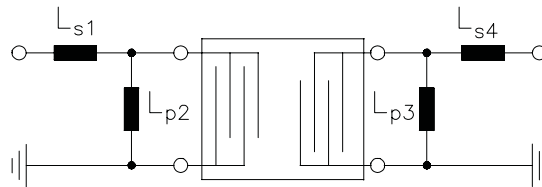
Low-Loss Filter

357,1 MHz

Data Sheet

Matching network (element values may depend on pcb layout)

50 Ω unbalanced:



$$L_{s1} = 47 \text{ nH}$$

$$L_{p2} = 47 \text{ nH}$$

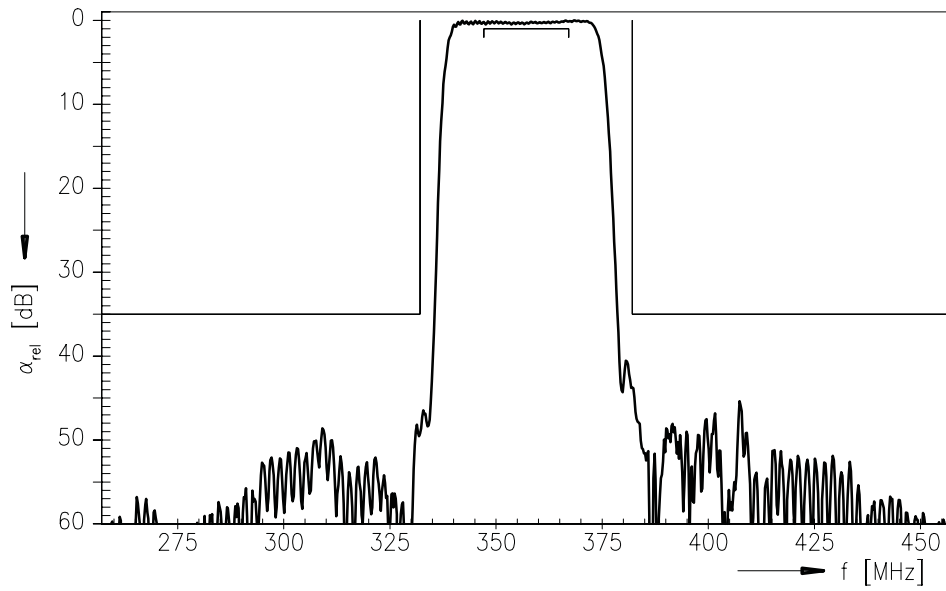
$$L_{p3} = 39 \text{ nH}$$

$$L_{s4} = 39 \text{ nH}$$

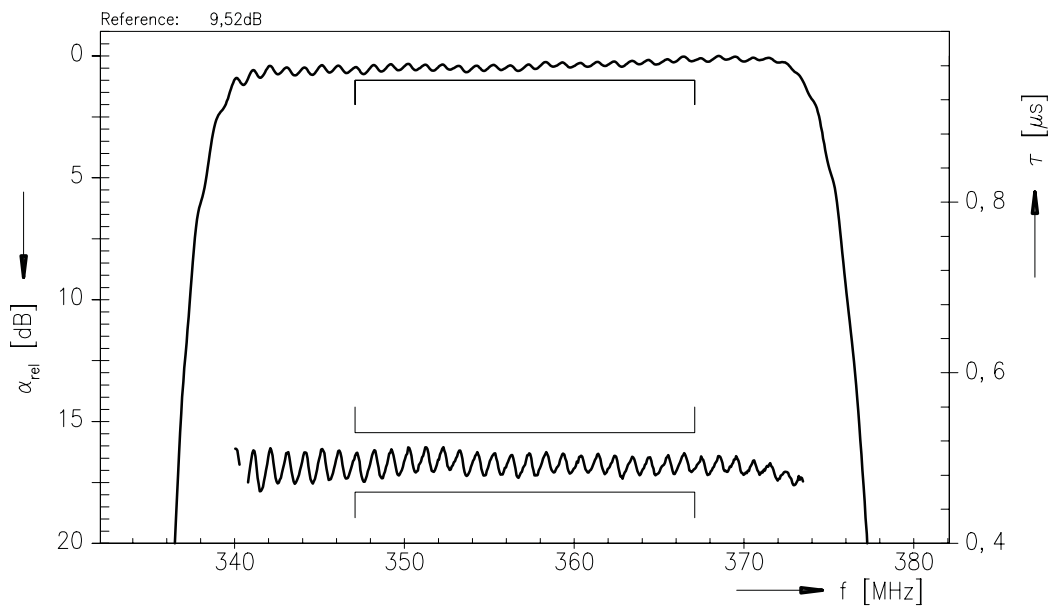


Data Sheet

Normalized frequency response



Normalized frequency response (pass band)





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Low-Loss Filter

357,1 MHz

Data Sheet

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P.O. Box 80 17 09, 81617 Munich, GERMANY

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