



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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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 Components

Data Sheet B4841

Data Sheet

A large, stylized, 3D-rendered graphic of the EPCOS logo. The letters "EPCOS" are rendered in a white, glowing, sans-serif font, appearing to be part of a larger, curved structure that resembles a globe or a complex circuit board. The background is dark and textured.



SAW Components

B4841

Low-Loss Filter for Mobile Communication

440,00 MHz

Data Sheet



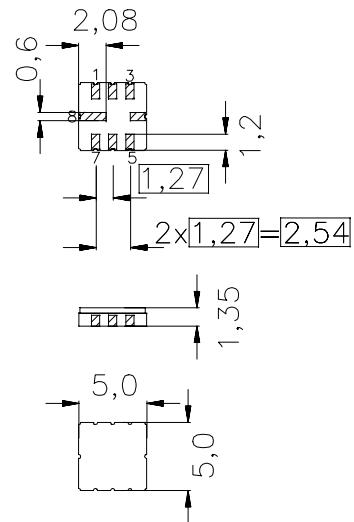
SMD ceramic package QCC8C

Features

- IF low-loss filter for mobile telephone
- Channel selection in GSM, PCN, PCS systems
- Package for **S**urface **M**ounted **T**echnology (**SMT**)
- Ceramic package
- Balanced and unbalanced operation possible
- High stopband attenuation

Terminals

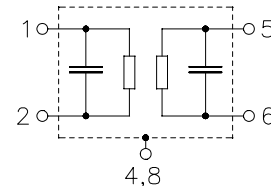
- Gold-plated Ni



Dimensions in mm, approx. weight 0,07 g

Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing according to
B4841	B39441-B4841-U310	C61157-A7-A56	F61074-V8070-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 20/+ 70	°C
Storage temperature range	T_{stg}	- 30/+ 85	°C
DC voltage	V_{DC}	3	V
Source power	P_s	10	dBm



SAW Components

B4841

Low-Loss Filter for Mobile Communication

440,00 MHz

Data Sheet



Characteristics for balanced operation

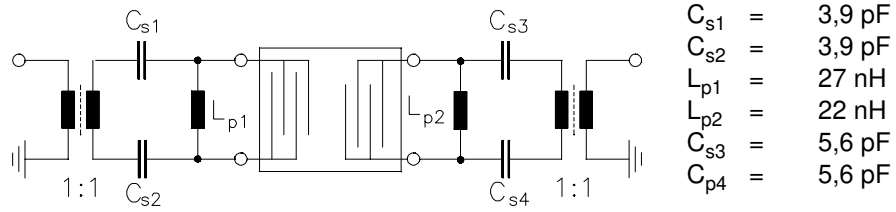
Operating temperature range: $T = -20$ to 70 °C
 Terminating source impedance: $Z_S = 360 \Omega \parallel -1,5$ pF
 Terminating load impedance: $Z_L = 340 \Omega \parallel -1,7$ pF

		min.	typ.	max.	
Nominal frequency	f_N	—	440,0	—	MHz
Minimum insertion attenuation	α_{min}				
including losses in matching network		—	4,6	5,5	dB
including losses in matching network and balun		—	5,7	6,5	dB
Amplitude ripple in passband (p-p)	$\Delta\alpha$				
$f_N - 67,0$ kHz ... $f_N + 67,0$ kHz		—	0,4	2,0	dB
$f_N - 80,0$ kHz ... $f_N + 80,0$ kHz		—	0,5	3,0	dB
Group delay ripple (p-p)	$\Delta\tau$				
$f_N - 80,0$ kHz ... $f_N + 80,0$ kHz		—	0,6	1,5	μ s
Relative attenuation (relative to α_{min})	α_{rel}				
$f_N - 75,00$ MHz ... $f_N - 1,60$ MHz		55	62	—	dB
$f_N - 1,60$ MHz ... $f_N - 0,80$ MHz		38	46	—	dB
$f_N - 0,80$ MHz ... $f_N - 0,60$ MHz		32	55	—	dB
$f_N - 0,60$ MHz ... $f_N - 0,40$ MHz		18	33	—	dB
$f_N + 0,40$ MHz ... $f_N + 0,60$ MHz		18	28	—	dB
$f_N + 0,60$ MHz ... $f_N + 0,80$ MHz		32	40	—	dB
$f_N + 0,80$ MHz ... $f_N + 1,60$ MHz		38	47	—	dB
$f_N + 1,60$ MHz ... $f_N + 75,00$ MHz		55	60	—	dB
Impedance within the passband					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	$360 \parallel 1,5$	—	$\Omega \parallel$ pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	$340 \parallel 1,7$	—	$\Omega \parallel$ pF
Temperature coefficient of frequency 1)	TC_f	—	-0,036	—	ppm/K ²
Turnover temperature	T_0	—	25	—	°C

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

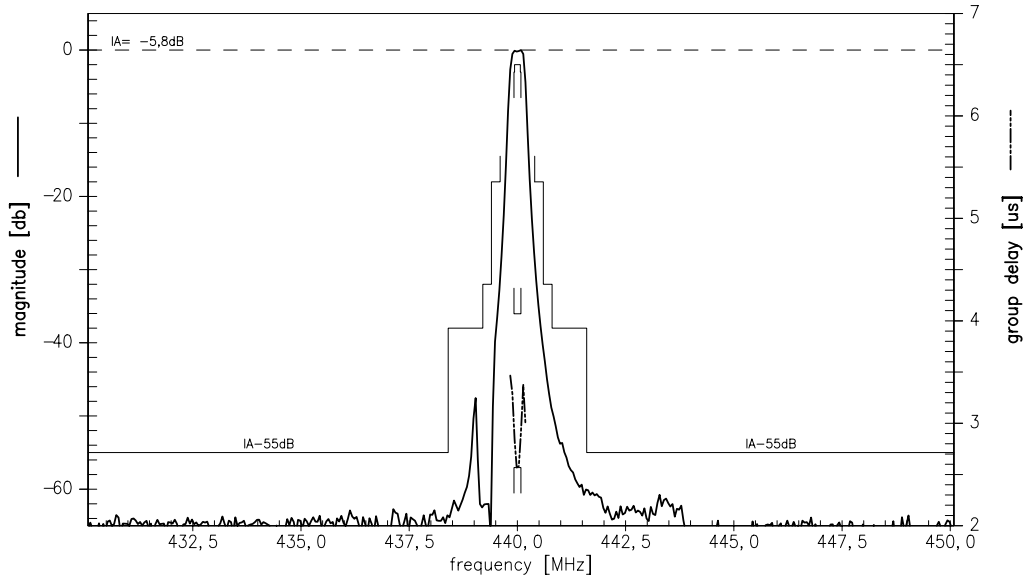


Matching network to 50 Ω: (Element values depend on PCB layout)

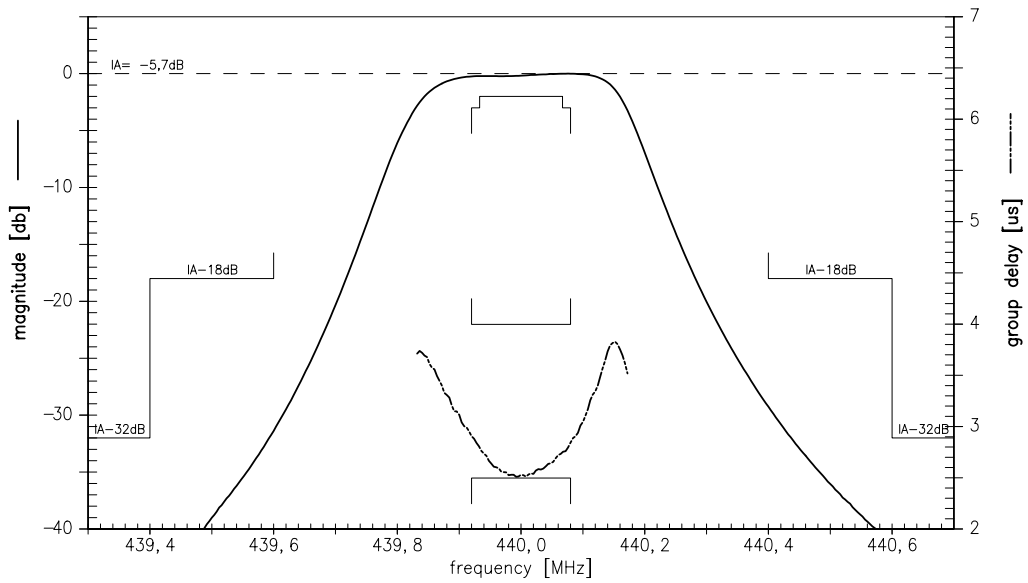




Transfer function:



Transfer function (pass band):





SAW Components

B4841

Low-Loss Filter for Mobile Communication

440,00 MHz

Data Sheet



Published by EPCOS AG

Surface Acoustic Wave Components Division, SAW MC WT PD

P.O. Box 80 17 09, D-81617 München

© EPCOS AG 2000. All Rights Reserved. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

The information contained in this brochure describes the type of component and shall not be considered as guaranteed characteristics. Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.