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# SAW filters for infrastructure systems

## Series/Type: B3643

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39371B3643Z710		2012-01-13	2012-12-31	2013-03-30

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](http://www.epcos.com/sales).

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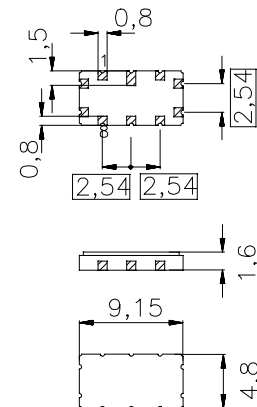
**Data Sheet**

 Ceramic package **QCC10B**
**Features**

- IF low-loss filter for wireless LAN systems
- Channel selection according to IEEE 802.11
- Temperature stable
- Ceramic SMD package

**Terminals**

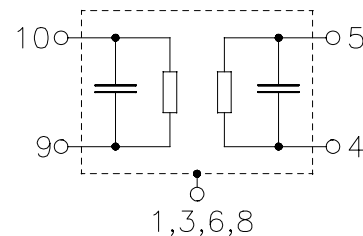
- Gold plated



Dimensions in mm, approx. weight 0,23

**Pin configuration**

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



Type	Ordering code	Marking and Package according to	Packing according to
B3643	B39371-B3643-Z710	C61157-A7-A49	F61074-V8035-Z000

Electrostatic Sensitive Device (ESD)

**Maximum ratings**

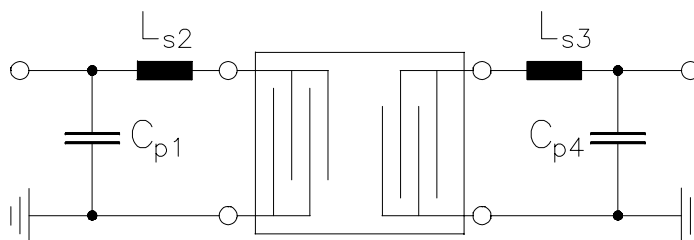
Operable temperature range	$T_A$	-25 / +70	°C	
Storage temperature range	$T_{stg}$	-40 / +85	°C	
DC voltage	$V_{DC}$	0	V	
Source power	$P_s$	10	dBm	source impedance 50 $\Omega$

**SAW Components**
**B3643**
**Low-Loss Filter**
**371,0 MHz**
**Data Sheet**
**Characteristics**

Operating temperature range:  $T_A = -20 \dots +60 \text{ }^\circ\text{C}$   
 Terminating source impedance:  $Z_S = 50 \text{ } \Omega$  and matching network  
 Terminating load impedance:  $Z_L = 50 \text{ } \Omega$  and matching network

		min.	typ.	max.	
<b>Nominal frequency</b>	$f_N$	—	371,0	—	MHz
<b>Insertion attenuation at <math>f_N</math></b>	$\alpha_N$	—	10	11,5	dB
<b>Pass bandwidth</b>					
$\alpha_{rel} < 1 \text{ dB}$	$B_{1dB}$	1,3	1,6	—	MHz
$\alpha_{rel} < 3 \text{ dB}$	$B_{3dB}$	—	2,0	2,5	MHz
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$				
$f_N - 0,5 \text{ MHz} \dots f_N + 0,5 \text{ MHz}$		—	0,3	1,0	dB
<b>Amplitude slope in passband</b>		—	0,0	$\pm 0,5$	dB
<b>Group delay ripple (p-p)</b>	$\Delta\tau$				
$f_N - 0,65 \text{ MHz} \dots f_N + 0,65 \text{ MHz}$		—	80	120	ns
$f_N - 1,00 \text{ MHz} \dots f_N + 1,00 \text{ MHz}$		—	90	—	ns
<b>Relative attenuation (relative to <math>\alpha_N</math>)</b>	$\alpha_{rel}$				
$f_N - 50 \text{ MHz} \dots f_N - 15 \text{ MHz}$		45	60	—	dB
$f_N - 15 \text{ MHz} \dots f_N - 5 \text{ MHz}$		40	55	—	dB
$f_N + 5 \text{ MHz} \dots f_N + 25 \text{ MHz}$		40	45	—	dB
$f_N + 25 \text{ MHz} \dots f_N + 50 \text{ MHz}$		45	50	—	dB
<b>Temperature coefficient of frequency <sup>1)</sup></b>	$TC_f$	—	-0,036	—	ppm/K <sup>2</sup>
<b>Turnover temperature</b>	$T_0$	—	16	—	$^\circ\text{C}$

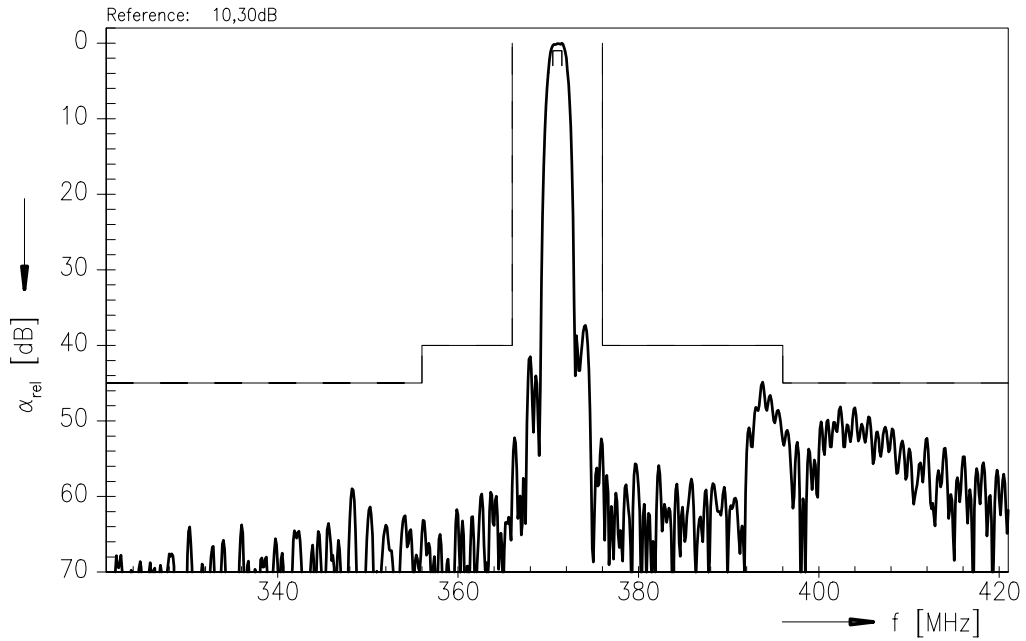
<sup>1)</sup> Temperature dependance of  $f_C$ :  $f_C(T_A) = f_C(T_0)(1 + TC_f(T_A - T_0)^2)$

**Matching network** (Element values depend upon PCB layout)


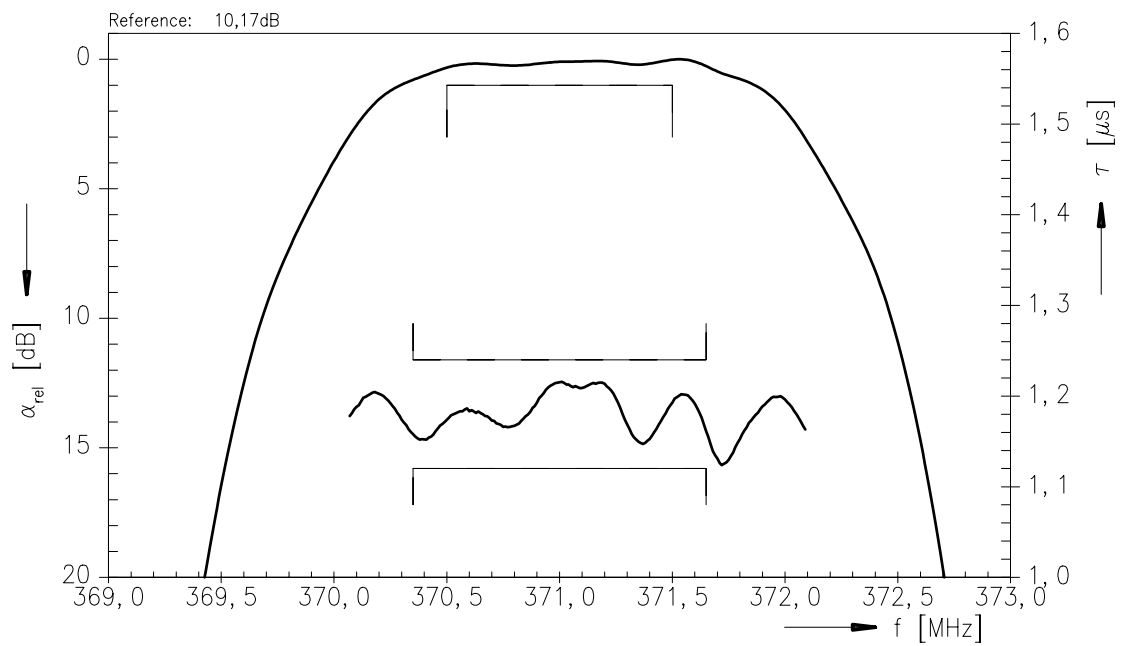
$C_{p1} = 15 \text{ pF}$   
 $L_{s2} = 27 \text{ nH}$   
 $L_{s3} = 22 \text{ nH}$   
 $C_{p4} = 15 \text{ pF}$

Data Sheet

Transfer function



Transfer function (pass band)



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