

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The following products presented in this data sheet are being withdrawn.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

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

Ceramic package QCC10B

- IF low-loss filter for wireless LAN systems
 Channel coloction according to UEEE 802
- Channel selection according to IEEE 802.11
- Temperature stable
- Ceramic SMD package

Terminals

Features

Gold plated



Dimensions in mm, approx. weight 0,23



Input
Output
Input ground
Output ground
Ground
Case ground



Туре	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	$T_{\rm sta}$	-40 / +85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Source power	$P_{\rm s}^{\rm s}$	10	dBm	source impedance 50 Ω

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SAW Components					B3643
Low-Loss Filter				371,	0 MHz
Data Sheet					
Characteristics					
Operating temperature range: T_A	= -20	+60 °C			
Terminating source impedance: $Z_{\rm S}$	$= 50 \Omega$	and match	ing networl	K	
reminating load impedance. Z _L	= 50 12	and match	ing networ	< C	
		min.	typ.	max.	
Nominal frequency	f _N	_	371,0		MHz
Insertion attenuation at $f_{\rm N}$	α_{N}	—	10	11,5	dB
Pass bandwidth					
α_{rel} < 1 dB	B_{1dB}	1,3	1,6	—	MHz
α_{rel} < 3 dB	$B_{ m 3dB}$	—	2,0	2,5	MHz
Amplitude ripple (p-p)	Δα				
$f_{\rm N} - 0.5$ MHz $f_{\rm N} + 0.5$ MHz		_	0,3	1,0	dB
Amplitude slope in passband		_	0,0	±0,5	dB
Group delay ripple (p-p)	$\Delta \tau$				
f _N - 0,65 MHz f _N + 0,65 MHz		—	80	120	ns
<i>f</i> _N - 1,00 MHz <i>f</i> _N + 1,00 MHz		—	90	—	ns
Relative attenuation (relative to α_N)	α_{rel}				
f _N - 50 MHz f _N - 15 MHz		45	60	—	dB
f _N - 15 MHz f _N - 5 MHz		40	55	—	dB
f _N + 5 MHz f _N + 25 MHz		40	45	—	dB
f _N + 25 MHz f _N + 50 MHz		45	50	—	dB
Temperature coefficient of frequency ¹⁾	TC _f		-0,036		ppm/K ²
Turnover temperature	<i>T</i> ₀		16	—	°C

¹⁾ Temperature dependance of $f_{\rm C}$: $f_{\rm C}(T_{\rm A}) = f_{\rm C}(T_0)(1 + TC_{\rm f}(T_{\rm A} - T_0)^2)$

Matching network (Element values depend upon PCB layout)



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SAW Components

Low-Loss Filter

B3643 371,0 MHz

Data Sheet Transfer function



Transfer function (pass band)



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

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