

SAW Components

Data Sheet B3643





SAW Components B3643
Low-Loss Filter 371,0 MHz

Data Sheet

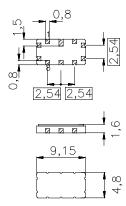
Ceramic package QCC10B

Features

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

Terminals

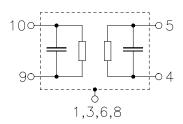
Gold plated



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



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



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Characteristics

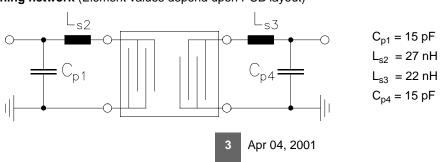
Operating temperature range:

 $T_{\rm A} = -20 ... +60 \, ^{\circ}{\rm C}$ $Z_{\rm S} = 50 \, \Omega$ and matching network $Z_{\rm L} = 50 \, \Omega$ and matching network Terminating source impedance: Terminating load impedance:

		min.	typ.	max.	
Nominal frequency	f_{N}	_	371,0	_	MHz
Insertion attenuation at $f_{\rm N}$		_	10	11,5	dB
Pass bandwidth					
α_{rel} < 1 dB	B_{1dB}	1,3	1,6	_	MHz
α_{rel} < 3 dB	B_{3dB}	_	2,0	2,5	MHz
Amplitude ripple (p-p)	Δα				
$f_{N} - 0.5 \text{ MHz } \dots f_{N} + 0.5 \text{ MHz}$		_	0,3	1,0	dB
Amplitude slope in passband		_	0,0	±0,5	dB
Group delay ripple (p-p)					
$f_{\rm N}$ - 0,65 MHz $f_{\rm N}$ + 0,65 MHz		_	80	120	ns
$f_{N} - 1,00 \text{ MHz } \dots f_{N} + 1,00 \text{ MHz}$		_	90	_	ns
Relative attenuation (relative to α_N)					
$f_{\rm N}$ - 50 MHz $f_{\rm N}$ - 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
$f_{\rm N}$ + 25 MHz $f_{\rm N}$ + 50 MHz		45	50	_	dB
Temperature coefficient of frequency 1)	TC _f	_	-0,036	_	ppm/K ²
Turnover temperature T_0		_	16	_	°C

¹⁾ 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)



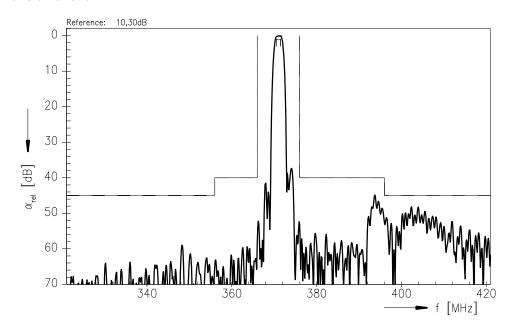


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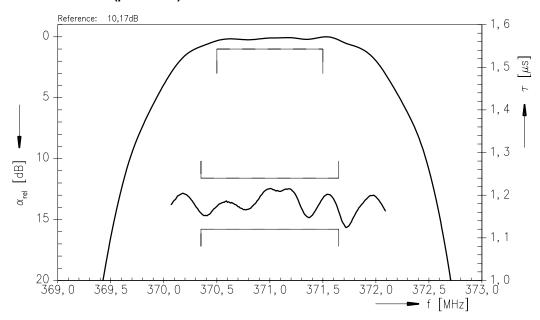
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Transfer function



Transfer function (pass band)





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