

SAW Components

Data Sheet B3643





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

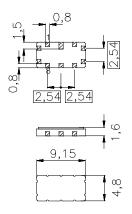
Ceramic package QCC10B

Features

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

Terminals

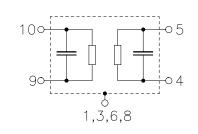
Gold plated



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 _{stq}	-40 / +85	°C	
DC voltage	V _{DC}	0	V	
Source power	Ps	10	dBm	source impedance 50 Ω

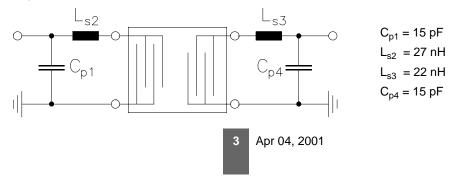
2



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Characteristics					
			ing networl		
Terminating load impedance: Z_{L}	$= 50 \Omega$	and match	ning networl	<	
		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	$B_{\rm 3dB}$	—	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)	Δτ				
<i>f</i> _N - 0,65 MHz <i>f</i> _N + 0,65 MHz		—	80	120	ns
$f_{\rm N}$ - 1,00 MHz $f_{\rm N}$ + 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
$f_{\rm N} + 25$ 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 $f_{\rm C}$: $f_{\rm C}(T_{\rm A}) = f_{\rm C}(T_0)(1 + TC_{\rm f}(T_{\rm A} - T_0)^2)$

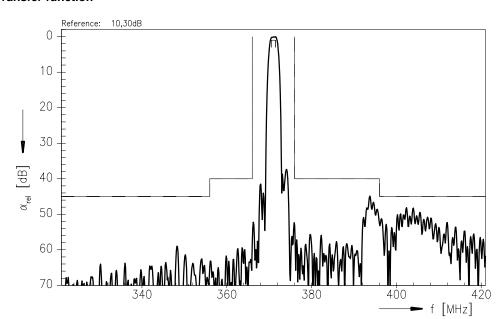
Matching network (Element values depend upon PCB layout)



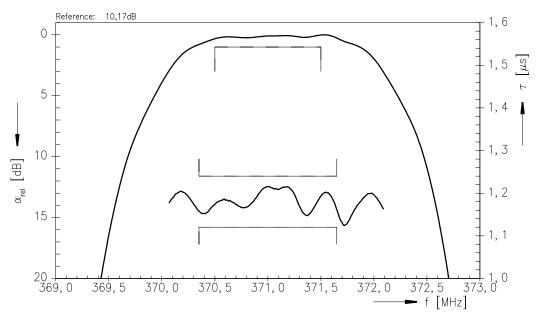


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Transfer function







Apr 04, 2001

4



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