查询"B39141B5209Z510"供应商

SAW Components

SAW IF filter

RadioLink

Series/type:	**B5209**
Ordering code:	**B39141B5209Z510**
Date:	May 18, 2009
Version:	2.0

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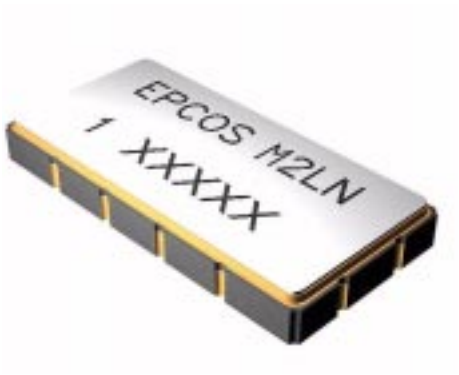
SAW Components	B5209
SAW IF filter	**140.0 MHz**

Data sheet SMD

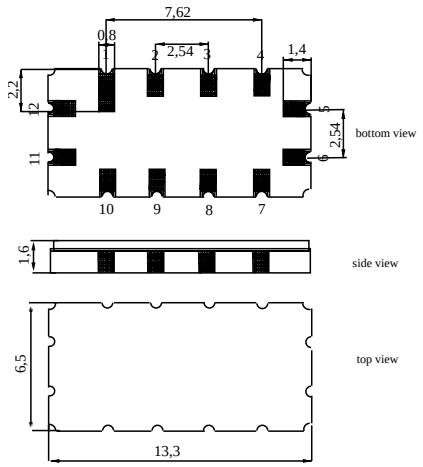
Application

- Low-loss IF filter for RadioLink base station
- Usable passband 12.0 MHz
- Balanced or unbalanced operation possible



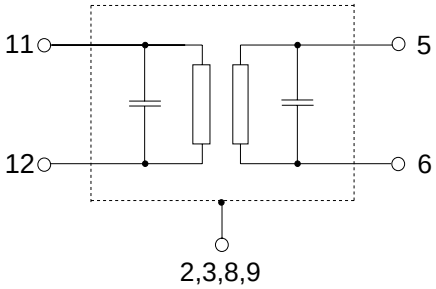
Features

- Package size 13.3 x 6.5 x 1.6 mm³
- Package code QCC12
- RoHS compatible
- Approximate weight 0.44 g
- Ceramic package for **S**urface **M**ount **T**echnology (**SMT**)
- Ni, gold-plated terminals
- **E**lectrostatic **S**ensitive **D**evice (**ESD**)
- Filter surface passivated



Pin configuration

■	11	Input
■	12	Input ground
■	5	Output
■	6	Output ground
■	1, 4, 7, 10	To be grounded
■	2, 3, 8, 9	Case ground



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Data sheet SMD

Characteristics

Temperature range for specification: T = –5 ˚C to +80 ˚C
Terminating source impedance: Z_S = 50 Ω and matching network
Terminating load impedance: Z_L = 50 Ω and matching network

		min.	typ. @ 25 ˚C	max.	
Nominal frequency	f_N	—	140	—	MHz
Minimum insertion attenuation (including matching network)	α_{min}	—	7.8	10.0	dB
Passband width					
$\alpha_{rel} \leq$ 3.0 dB	B_{3dB}	15	18.7	—	MHz
$\alpha_{rel} \leq$ 40.0 dB	B_{40dB}	—	34.1	60	MHz
Amplitude ripple (p-p)	$\Delta\alpha$				
$f_N \pm$ 6.0 MHz		—	0.66	1.0	dB
$f_N \pm$ 7.5 MHz			0.66	3.0	dB
Group delay ripple (p-p)	$\Delta\tau$				
$f_N \pm$ 6.0 MHz		—	55	100	ns
Relative attenuation (relative to α_{min})	α_{rel}				
f_N – 30.0 MHz ... f_N – 130.0 MHz		40	55	—	dB
f_N + 30.0 MHz ... f_N + 360.0 MHz		40	65	—	dB
Temperature coefficient of frequency	TC_f	—	–87	—	ppm/K

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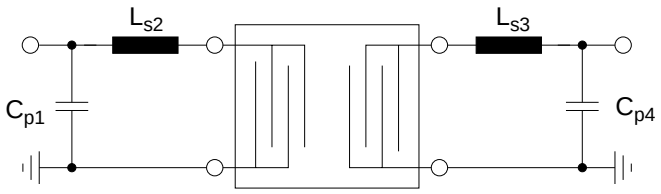
Matching network to 50 Ω



C_{p1} = 56 pF
L_{s2} = 39 nH
L_{s3} = 39 nH
C_{p4} = 39 pF

Maximum ratings

Operable temperature range	T	–40/+85	°C	
Storage temperature range	T_{stg}	–40/+85	°C	
DC voltage	V_{DC}	0	V	
Input Power	P_{IN}	5	dBm	

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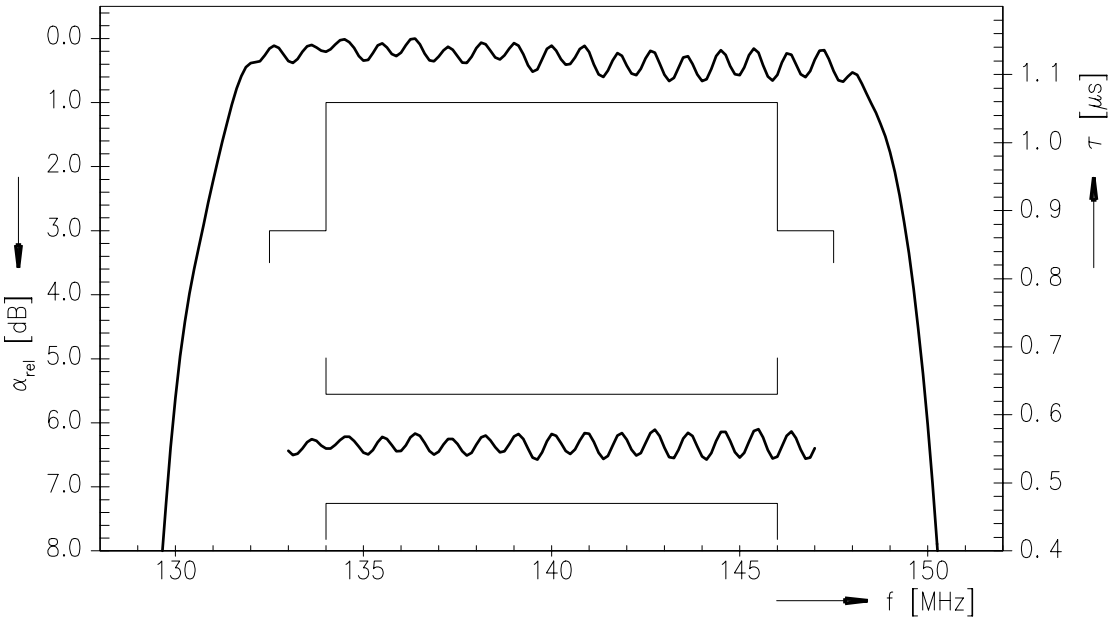
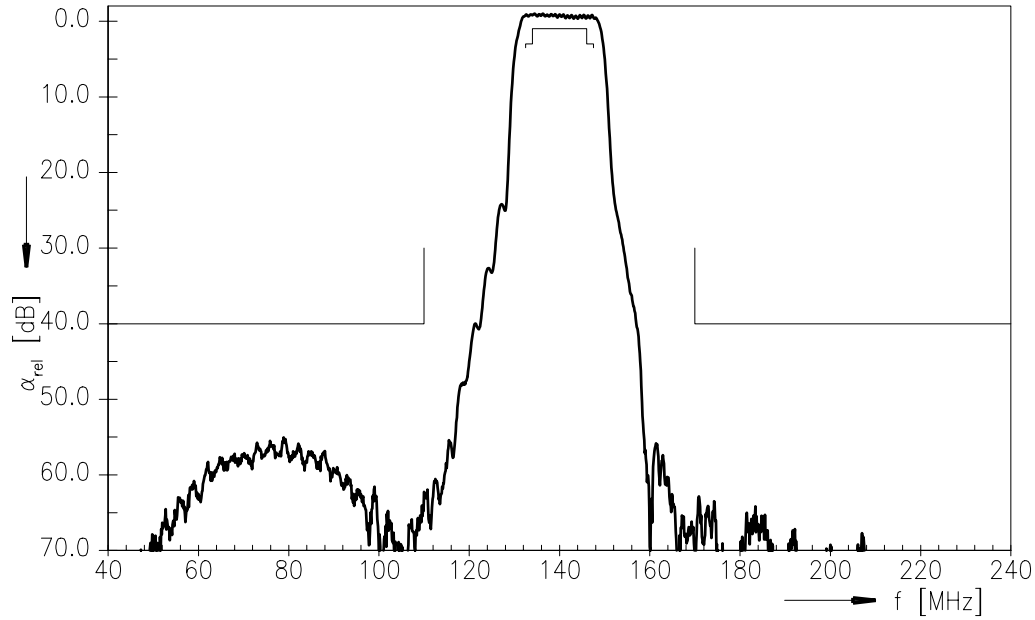
Transfer function (S21, Narrowband)



Transfer function (S21, Wideband)



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References

Type	B5209
Ordering code	B39141B5209Z510
Marking and package	C61157-A7-A55
Packaging	F61074-V8163-Z000
Date codes	L_1126
S-parameters	
Soldering profile	S_6001
RoHS compatible	defined as compatible with the following documents: "DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment. 2005/618/EC from April 18th, 2005, amending Directive 2002/95/EC of the European Parliament and of the Council for the purposes of establishing the maximum concentration values for certain hazardous substances in electrical and electronic equipment."

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