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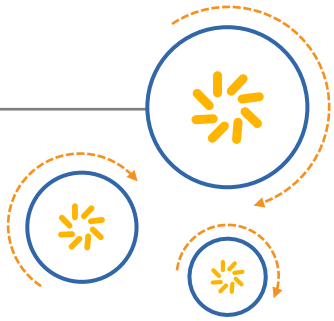

SAW Components

SAW IF filters for base stations

Series/type:	B5262
Ordering code:	B39181B5262H810
Date:	January 07, 2014
Version:	2.0

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RF360 Europe GmbH, Anzinger Str. 13, München, Germany

SAW Components

SAW IF filters for base stations

Series/type:	**B5262**
Ordering code:	**B39181B5262H810**
Date:	January 07, 2014
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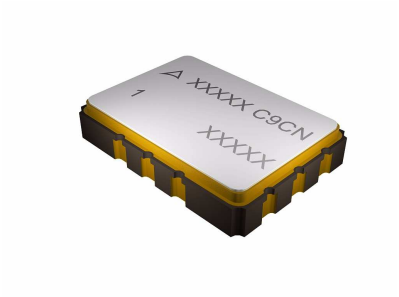
Data sheet SMD

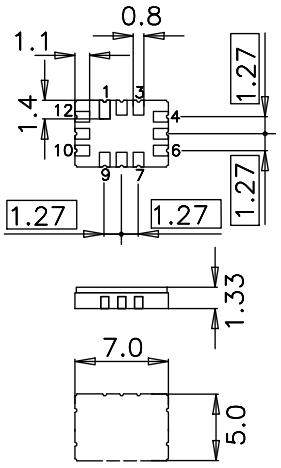
Application

- Low-loss IF filter for base stations
- Usable passband 25 MHz
- Unbalanced or balanced operation possible



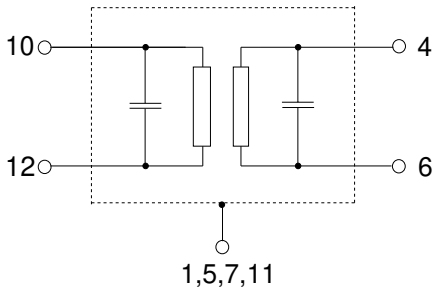
Features

- Package size 7.0 x 5.0 x 1.33 mm³
- Package code QCC12E
- RoHS compatible
- Approx. weight 0.25 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
- **M**oisture **S**ensitive **L**evel 1



Pin configuration

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



Data sheet SMD

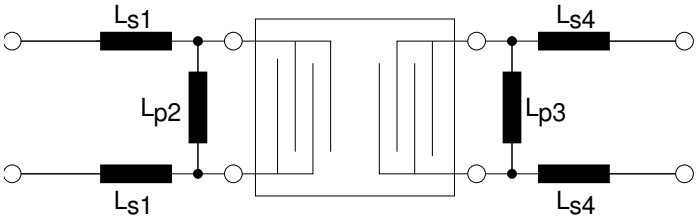
Characteristics

Temperature range for specification: T = -40 ˚C to +85 ˚C
Terminating source impedance: Z_S = 200 Ω balanced and matching network
Terminating load impedance: Z_L = 150 Ω balanced and matching network

		min.	typ. @ 25 ˚C	max.	
Nominal frequency	f_N	—	184.32	—	MHz
Minimum insertion attenuation (including matching network)	α_{min}	—	8.2	9.5	dB
Passband width					
$\alpha_{rel} \leq$ 1.0 dB	$B_{1.0\ dB}$	25	28	—	MHz
Amplitude ripple (p-p)	$\Delta\alpha$				
$f_N \pm$ 12.50 MHz		—	0.5	1.0	dB
in any segment of 5 MHz in $f_N \pm$ 12.50 MHz		—	0.3	0.8	dB
Average error vector magnitude[1]	EVM	—	1.8	2.5	%
Absolute group delay	τ				
$f_N \pm$ 12.50 MHz		—	0.5	0.55	µs
Group delay ripple (p-p)	$\Delta\tau$				
$f_N \pm$ 12.50 MHz		—	30	50	ns
Return loss (input / output)		7.5	14.5	—	dB
Relative attenuation (relative to α_{min})	α_{rel}				
10.00 ... 75.00 MHz		55	65	—	dB
75.00 ... 151.82 MHz		40	55	—	dB
151.82 ... 161.82 MHz		30	43	—	dB
161.82 ... 166.82 MHz		10	32	—	dB
201.82 ... 206.82 MHz		10	25	—	dB
206.82 ... 216.82 MHz		30	37	—	dB
216.82 ... 290.00 MHz		40	50	—	dB
290.00 ... 330.00 MHz		50	64	—	dB
330.00 ... 410.00 MHz		40	60	—	dB
410.00 ... 1000.00 MHz		45	62	—	dB

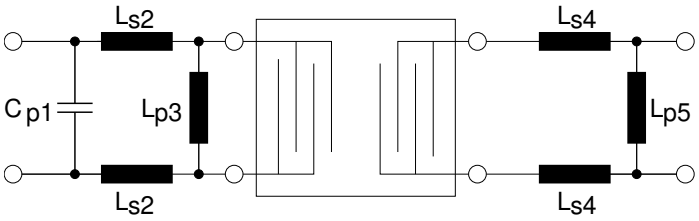
[1] EVM calculation based on root raised cosine filtered QPSK signal (fc_{RRC} within 174.32 ... 194.32 MHz, bw_{RRC}= 3.84 MHz)

Matching network to 200 Ω balanced input and 150 Ω balanced output



L_{s1} = 130 nH
L_{p2} = 120 nH
L_{p3} = 150 nH
L_{s4} = 120 nH

Alternative matching network to 200 Ω balanced input and 150 Ω balanced output



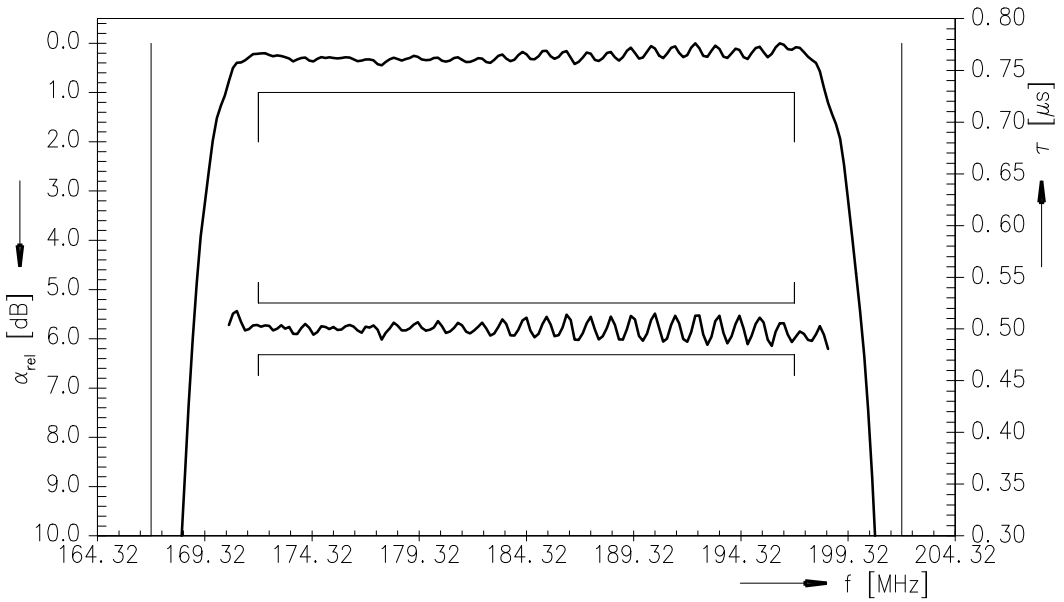
C_{p1}= 3.3 pF
L_{s2} = 130 nH
L_{p3} = 180 nH
L_{s4} = 24 nH
L_{p5} = 68 nH

Element values depend upon board layout and properties.

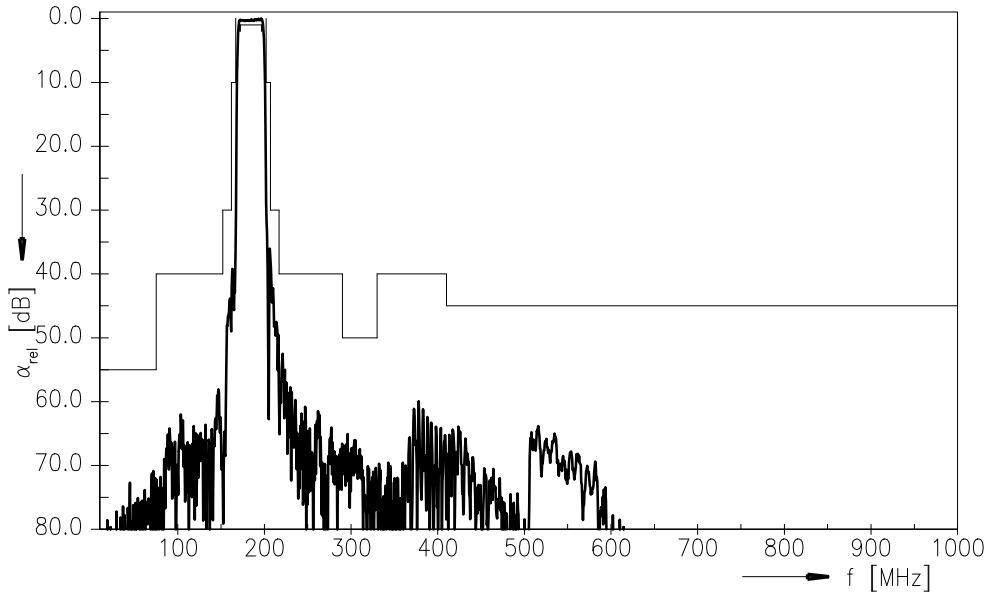
Maximum ratings

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}			
171.82 ... 196.82 MHz		10	dBm	

Transfer function (S21, narrowband, normalized)



Transfer function (S21, wideband, normalized)



References

Type	B5262
Ordering code	B39181B5262H810
Marking and package	C61157-Z7-A103
Packaging	F61074-V8170-Z000
Date codes	L_1126
S-parameters	B5262_UN_NB.s4p, B5262_UN_WB.s4p, B5262_NB.s4p, B5262_WB.s4p see file header for port/pin assignment table
Soldering profile	S_6001
RoHS compatible	RoHS-compatible means that products are compatible with the requirements according to Art. 4 (substance restrictions) of Directive 2011/65/EU of the European Parliament and of the Council of June 8th, 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment ("Directive") with due regard to the application of exemptions as per Annex III of the Directive in certain cases.
Matching coils	See Inductor pdf-catalog http://www.tdk.co.jp/tefe02/coil.htm#aname1 and Data Library for circuit simulation http://www.tdk.co.jp/etvcl/index.htm

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