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SAW Components

SAW IF filter for base stations

LTE

Series/type:	B5261
Ordering code:	B39231B5261H810
Date:	Jul 16, 2014
Version:	2.2

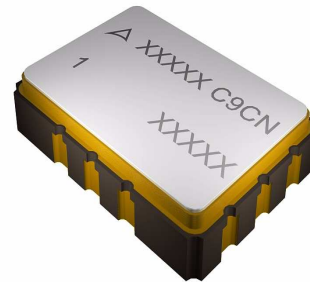
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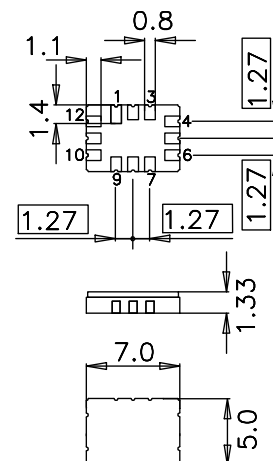
Data sheet

Application

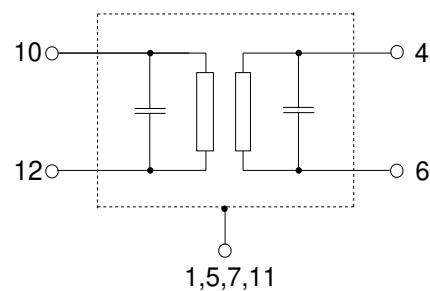
- Low-loss IF filter for LTE
- Usable passband 75 MHz
- Balanced operation


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 **Surface Mount Technology (SMT)**
- Ni, gold-plated terminals
- **Electrostatic Sensitive Device (ESD)**
- Filter Surface Passivated
- Moisture Sensitive Level 1


Pin configuration

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



Data sheet

Characteristics

Temperature range for specification:

 $T = -40\text{ °C to }+85\text{ °C}$

Terminating source impedance:

 $Z_S = 200\ \Omega$ balanced and matching network

Terminating load impedance:

 $Z_L = 200\ \Omega$ balanced and matching network

		min.	typ. @ 25 °C	max.	
Center frequency	f_C	—	230.4	—	MHz
Minimum insertion attenuation (including matching network)	α_{\min}	—	10.6	12	dB
Passband width $\alpha_{\text{ref}} \leq 1.3\text{ dB}$	$B_{1.3\text{dB}}$	75	79	—	MHz
Amplitude ripple (p-p) $f_C \pm 37.5\text{ MHz}$	$\Delta\alpha$	—	0.9	1.3	dB
Amplitude ripple In any segment of 5 MHz	$\Delta\alpha$	—	0.4	1.0	dB
Absolute group delay $f_C \pm 37.5\text{ MHz}$	τ	—	0.3	0.5	μs
Group delay ripple (p-p) $f_C \pm 37.5\text{ MHz}$	$\Delta\tau$	—	25	60	ns
Relative attenuation (relative to α_{\min})	α_{rel}				
10.0 ... 114.0 MHz		50	62	—	dB
114.0 ... 170.0 MHz		35	40	—	dB
300.0 ... 420.0 MHz		35	40	—	dB
420.0 ... 1000.0 MHz		40	49	—	dB

Maximum ratings

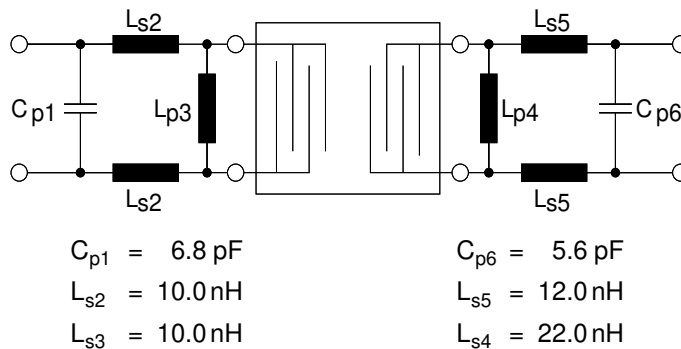
Operable temperature range	T	-40/+85	°C	Machine Model Human Body Model cw, 10,000 h, 85 °C
Storage temperature range	T _{stg}	-40/+85	°C	
DC voltage	V _{DC}	0	V	
ESD voltage	V _{ESD}	200 ¹⁾	V	
		350 ²⁾	V	
Input power 192.9 ... 267.9 MHz	P _{IN}	15	dBm	

1) acc. to JESD22-A115B (MM - Machine Model), 1 negative & 1 positive pulses

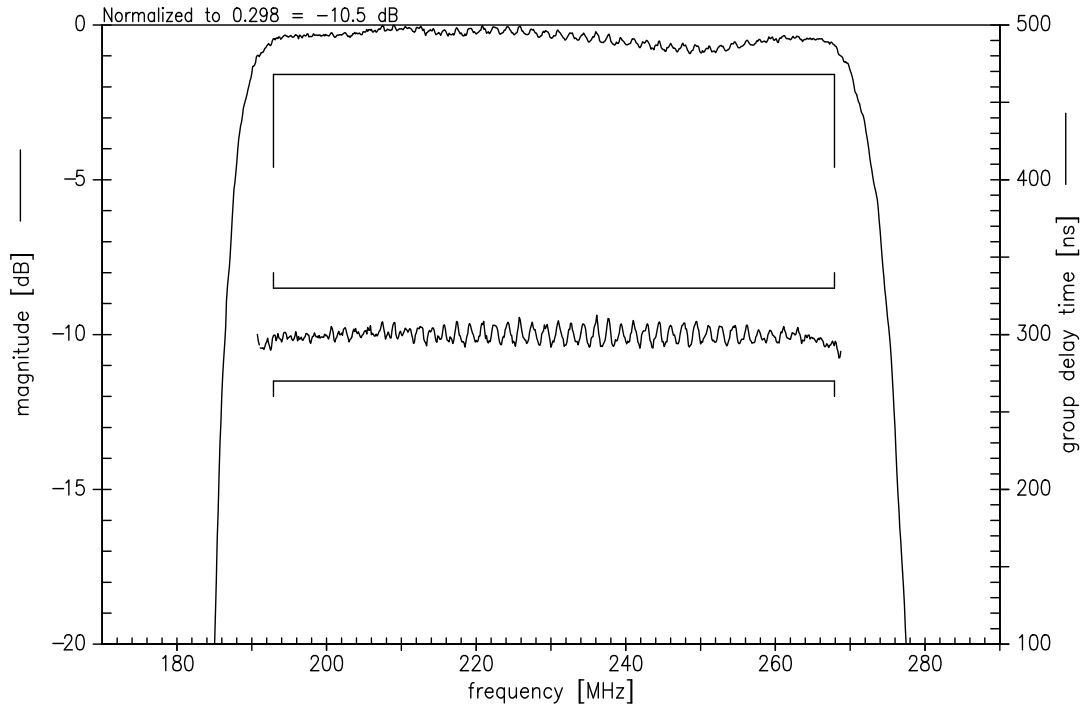
2) acc. to JESD22-A114F (HBM - Human Body Model), 1 negative & 1 positive pulses

Matching network to 200 Ω Input balanced / 200 Ω Output balanced

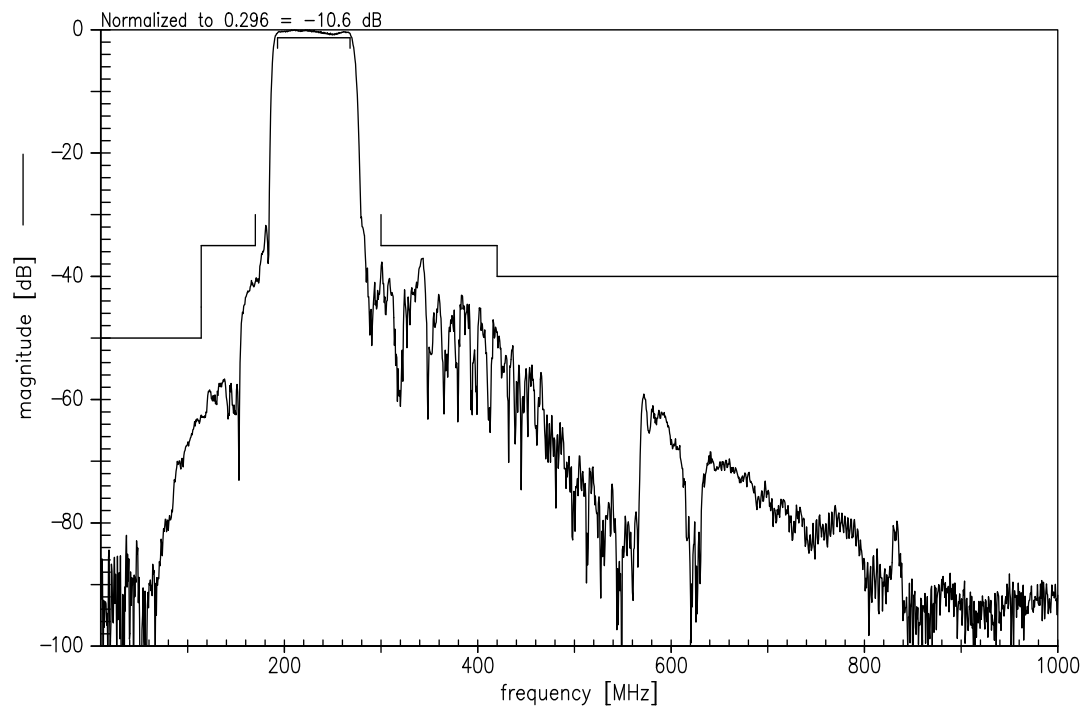
(matching element values depend on PCB layout)



Transfer function (S21, narrowband)



Transfer function (S21, wideband)



SAW Components	B5261
SAW IF filter	230.4 MHz
Data sheet	

References

Type	B5261
Ordering code	B39231B5261H810
Marking and package	C61157-Z7-A103
Packaging	F61074-V8170-Z000
Date codes	L_1126
S-parameters	B5261_NB.s4p B5261_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 for a large variety of matching coils.

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