

SAW Components

Data Sheet B5025





Data Sheet

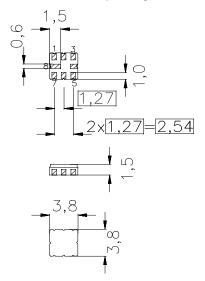
Features

- Low-loss IF filter
- Ceramic SMD package
- Balanced or unbalanced operation

Terminals

Gold plated

Ceramic package QCC8B



typ. Dimensions in mm, approx. weight 0,1 g

Pin configuration

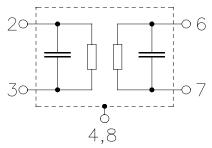
3	Input

2 Input or input ground

7 Output

6 Output or output ground

4, 8 Case ground 1, 5 To be grounded



Туре	Ordering code	Marking and Package	Packing	
		according to	according to	
B5025	B39371-B5025-Z810	C61157-A7-A46	F61074-V8167-Z000	

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Τ	-40 / +85	°C	
Storage temperature range	$T_{ m stg}$	-40 / +85	°C	
DC voltage	$V_{\rm DC}$	5	V	
ESD voltage	V* _{ESD}	100*	V	Machine Model, 10 pulses
Source power	$P_{\rm s}$	10	dBm	

^{*-}acc. to JESD22-A115A(Machine Model), 10 negative & 10 positive pulses



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Characteristics

Operating temperature range: $T = -10 \dots 80 \,^{\circ}\text{C}$

Terminating source impedance: $Z_{\rm S} = 50~\Omega$ unbalanced and matching network. Terminating load impedance: $Z_{\rm L} = 50~\Omega$ unbalanced and matching network.

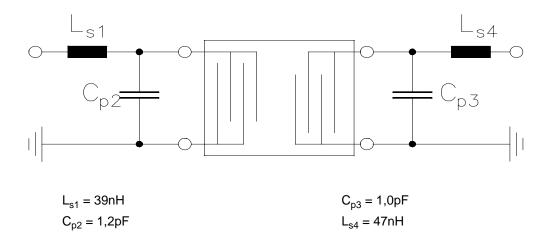
		min.	typ.	max.	
Nominal frequency	f _N	_	374,0	_	MHz
Minimum insertion attenuation (including matching network)	α_{min}	_	4,1	6,0	dB
Bandwidth $\alpha_{\text{rel}} \leq 3 \text{ dB}$	B _{3dB}	17	20,5	_	MHz
Amplitude ripple (peak-to-peak) $f_{\rm N} \pm 7~{\rm MHz}$	Δα	_	1,0	1,5	dB
Group delay ripple (p-p) ${\it f}_{\rm N} \pm 7~{\rm MHz}$	Δτ	_	45	100	ns
Relative attenuation (relative to α_{min})	α_{rel}				
f _N – 65,0 MHz f _N – 22,0 MHz		40	54	_	dB
f _N – 22,0 MHz f _N – 16,5 MHz		35	41	_	dB
$f_N + 16,5 \text{ MHz} \dots f_N + 20,0 \text{ MHz}$		27	35	_	dB
$f_N + 20,0 \text{ MHz} \dots f_N + 30,0 \text{ MHz}$		35	37	_	dB
$f_N + 30,0 \text{ MHz} \dots f_N + 80,0 \text{ MHz}$		40	50	_	dB
Temperature coefficient of frequency	TC _f	_	- 70	_	ppm/K



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Matching network to 50 $\boldsymbol{\Omega}$

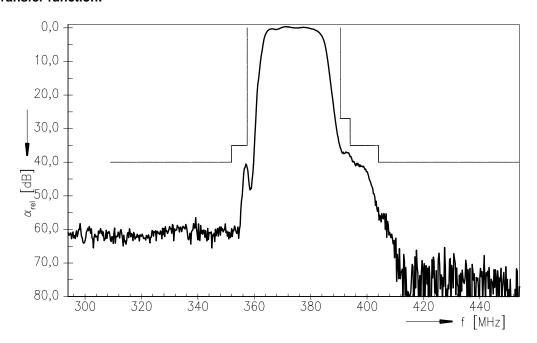
(Element values depend upon PCB layout)



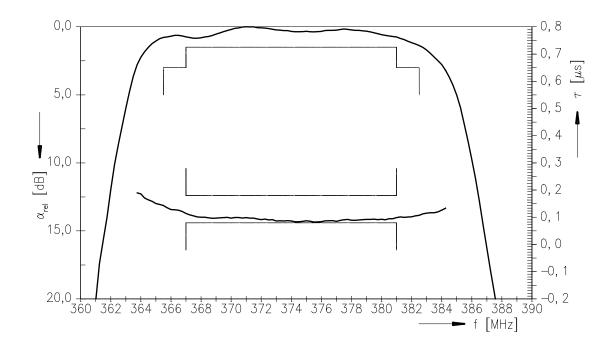


Data Sheet

Transfer function:



Transfer function (pass band):





Data Sheet

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