

SAW Components

Data Sheet B5025





SAW Components

Low-Loss Filter

B5025 374,0 MHz

Data Sheet

Features

Ceramic package QCC8B

Low-loss IF filter

- Ceramic SMD package
- Balanced or unbalanced operation

Terminals

• Gold plated



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

Pin configuration

- Input
 Input or input ground
 Output
 Output or output ground
 Case ground
- 1, 5 To be grounded



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

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	-40 / +85	°C	
Storage temperature range	$T_{\rm sta}$	-40 / +85	°C	
DC voltage	$V_{\rm DC}$	5	V	
ESD voltage	V_{ESD}^*	100*	V	Machine Model, 10 pulses
Source power	Ps	10	dBm	

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



SAW Components Low-Loss Filter

B5025 374,0 MHz

Data Sheet

Characteristics

Operating temperature range:	Т	= -10 80 °C				
Terminating source impedance:	$Z_{\rm S}$	= 50 Ω unbalanced and matching network.				
Terminating load impedance:	$Z_{\rm L}$	= 50 Ω unbalanced and matching network.				
		min two max				

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



Data Sheet

Matching network to 50 Ω

(Element values depend upon PCB layout)



Apr 07, 2005

4



SAW Components

B5025 374,0 MHz



Transfer function:

Low-Loss Filter



Transfer function (pass band):



5

Apr 07, 2005



SAW ComponentsB5025Low-Loss Filter374,0 MHzData Sheet

Published by EPCOS AG Surface Acoustic Wave Components Division, SAW MC PD P.O. Box 80 17 09, 81617 Munich, GERMANY

© EPCOS AG 2005. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.

