



SAW Components

Data sheet B7873

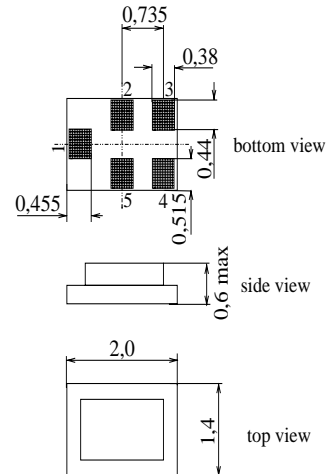




Chip Sized Saw Package

Features

- Low-loss RF filter for WLAN
- Usable passband 100 MHz
- Unbalanced to unbalanced operation
- Package for **Surface Mounted Technology (SMT)**

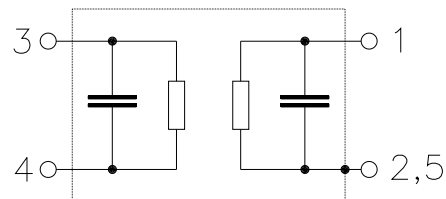

Terminals

- Ni, gold-plated

Dimensions in mm, approx. weight 0,006g

Pin configuration

- | | |
|-----|--------------------|
| 1 | Input, unbalanced |
| 4 | Output, unbalanced |
| 2,5 | Case ground |
| 3 | to be grounded |



Type	Ordering code	Marking and Package according to	Packing according to
B7873	B39242-B7873-C713	C61157-A7-A130	F61074-V8151-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 40 /+ 85	°C	
Storage temperature range	T_{stg}	- 40 /+ 85	°C	
DC voltage	V_{DC}	3	V	
Input power max. 2400...2500 MHz	P_{IN}	6	dBm	source/load impedance 50Ω/50Ω



SAW Components

B7873

Low-Loss Filter

2450,0 MHz

Data sheet



Characteristics

Operating temperature range: $T = +25\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega \parallel 5,0\text{ nH}$ (parallel)
 Terminating load impedance: $Z_L = 50\ \Omega - 3,5\text{ nH}$ (serial)

		min.	typ.	max.	
Center frequency	f_c	—	2450,0	—	MHz
Maximum insertion attenuation	α_{\max}				
	2400,0 ... 2500,0 MHz	—	3,0	3,4	dB
Return loss					
	2400,0 ... 2500,0 MHz	—	9,4	—	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
	2400,0 ... 2500,0 MHz	—	1,0	1,5	dB
Attenuation	α				
	100,0 ... 960,0 MHz	40	56	—	dB
	960,0 ... 2150,0 MHz	32	35	—	dB
	2150,0 ... 2170,0 MHz	30	40	—	dB
	2170,0 ... 2250,0 MHz	20	33	—	dB
	2250,0 ... 2300,0 MHz	10	29	—	dB
	2550,0 ... 2650,0 MHz	10	27	—	dB
	2650,0 ... 2800,0 MHz	20	27	—	dB
	2800,0 ... 4000,0 MHz	25	36	—	dB
	4000,0 ... 6000,0 MHz	30	45	—	dB



SAW Components

B7873

Low-Loss Filter

2450,0 MHz

Data sheet



Characteristics

Operating temperature range: $T = -40$ to $+85$ °C
 Terminating source impedance: $Z_S = 50 \Omega \parallel 5,0$ nH (parallel)
 Terminating load impedance: $Z_L = 50 \Omega - 3,5$ nH (serial)

		min.	typ.	max.	
Center frequency	f_c	—	2450,0	—	MHz
Maximum insertion attenuation	α_{max}	—	3,1	3,5	dB
2400,0 ... 2500,0 MHz					
Return loss		—	9,4	—	dB
2400,0 ... 2500,0 MHz					
Amplitude ripple (p-p)	$\Delta\alpha$	—	1,0	1,5	dB
2400,0 ... 2500,0 MHz					
Attenuation	α				dB
100,0 ... 960,0 MHz		40	56	—	
960,0 ... 2150,0 MHz		32	35	—	
2150,0 ... 2170,0 MHz		30	40	—	
2170,0 ... 2250,0 MHz		20	33	—	
2250,0 ... 2300,0 MHz		10	29	—	
2550,0 ... 2650,0 MHz		10	27	—	
2650,0 ... 2800,0 MHz		20	27	—	
2800,0 ... 4000,0 MHz		25	36	—	
4000,0 ... 6000,0 MHz		30	45	—	



SAW Components

B7873

Low-Loss Filter

2450,0 MHz

Data sheet



Characteristics

Operating temperature range: $T = +25\text{ °C}$
 Terminating source impedance: $Z_S = 60\ \Omega \parallel 5,0\text{ nH}$ (parallel)
 Terminating load impedance: $Z_L = 60\ \Omega - 3,5\text{ nH}$ (serial)

		min.	typ.	max.	
Center frequency	f_c	—	2450,0	—	MHz
Maximum insertion attenuation	α_{\max}	—	2,8	3,3	dB
	2400,0 ... 2500,0 MHz				
Return loss		9,6	12,0	—	dB
	2400,0 ... 2500,0 MHz				
Amplitude ripple (p-p)	$\Delta\alpha$	—	1,0	1,5	dB
	2400,0 ... 2500,0 MHz				
Attenuation	α				dB
	100,0 ... 960,0 MHz	40	56	—	
	960,0 ... 2150,0 MHz	32	35	—	
	2150,0 ... 2170,0 MHz	30	40	—	
	2170,0 ... 2250,0 MHz	20	33	—	
	2250,0 ... 2300,0 MHz	10	29	—	
	2550,0 ... 2650,0 MHz	10	27	—	
	2650,0 ... 2800,0 MHz	20	27	—	
	2800,0 ... 4000,0 MHz	25	36	—	
	4000,0 ... 6000,0 MHz	30	45	—	



SAW Components

B7873

Low-Loss Filter

2450,0 MHz

Data sheet



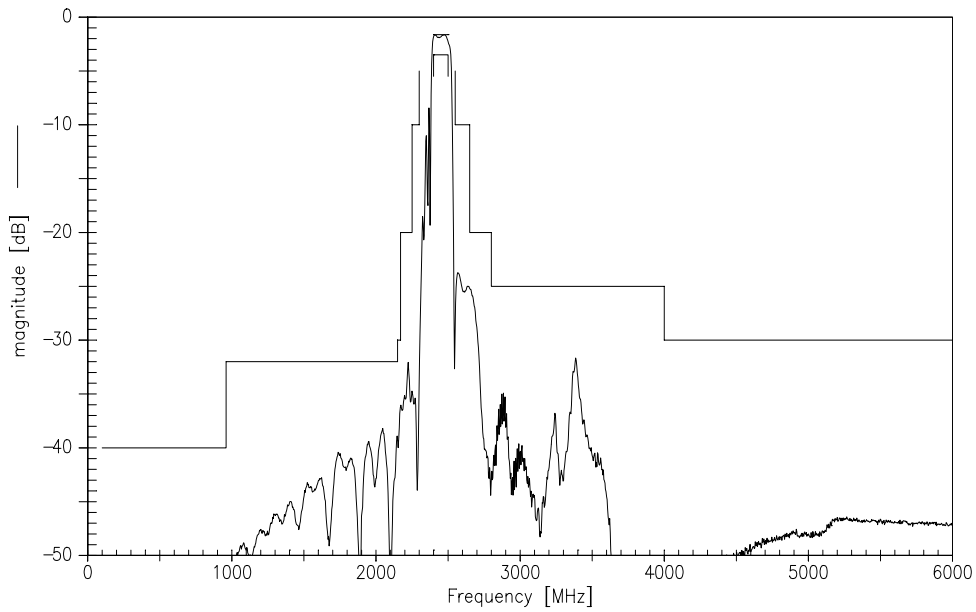
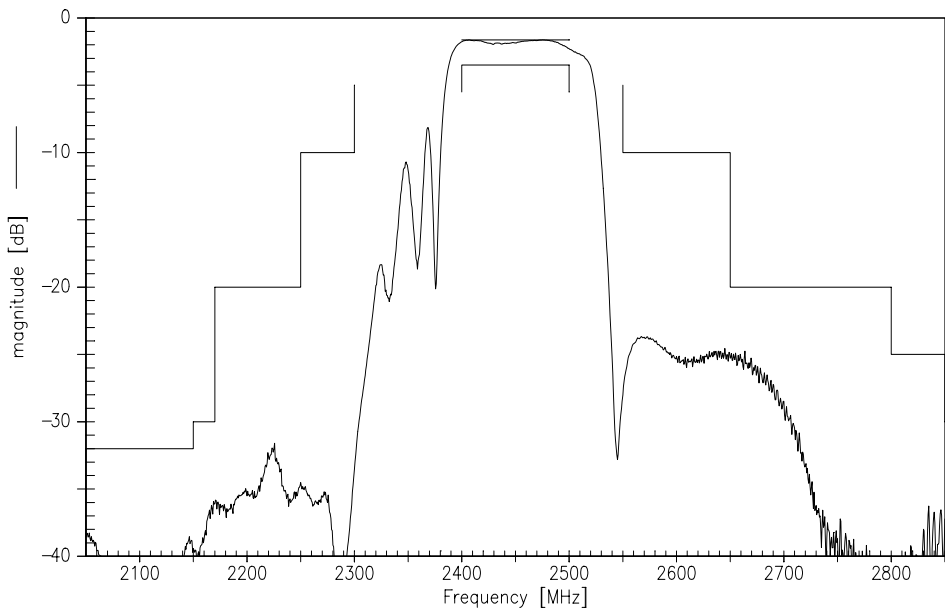
Characteristics

Operating temperature range: $T = -40$ to $+85$ °C
 Terminating source impedance: $Z_S = 60 \Omega \parallel 5,0$ nH (parallel)
 Terminating load impedance: $Z_L = 60 \Omega - 3,5$ nH (serial)

		min.	typ.	max.	
Center frequency	f_c	—	2450,0	—	MHz
Maximum insertion attenuation	α_{max}	—	3,1	3,5	dB
2400,0 ... 2500,0 MHz					
Return loss		9,6	12,0	—	dB
2400,0 ... 2500,0 MHz					
Amplitude ripple (p-p)	$\Delta\alpha$	—	1,0	1,5	dB
2400,0 ... 2500,0 MHz					
Attenuation	α				dB
100,0 ... 960,0 MHz		40	56	—	
960,0 ... 2150,0 MHz		32	35	—	
2150,0 ... 2170,0 MHz		30	40	—	
2170,0 ... 2250,0 MHz		20	33	—	
2250,0 ... 2300,0 MHz		10	29	—	
2550,0 ... 2650,0 MHz		10	27	—	
2650,0 ... 2800,0 MHz		20	27	—	
2800,0 ... 4000,0 MHz		25	36	—	
4000,0 ... 6000,0 MHz		30	45	—	



Transfer function





SAW Components

B7873

Low-Loss Filter

2450,0 MHz

Data sheet



Published by EPCOS AG

SAW MC WT, P.O. Box 80 17 09, 81617 Munich, GERMANY

TEL +49 89 636 09, FAX +49 89 636 2 26 89

© EPCOS AG 2004. 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.