



SAW Components

Data sheet B7873

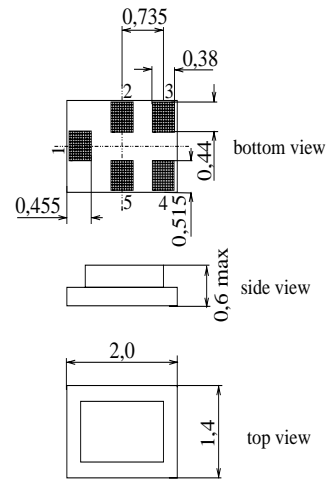




Chip Sized Saw Package

Features

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



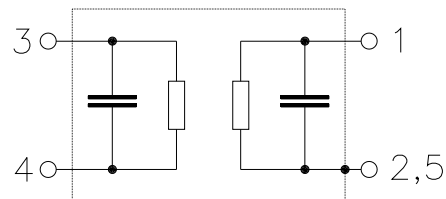
Terminals

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



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Low-Loss Filter

2450,0 MHz

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 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



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 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	—	



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		min.	typ.	max.	
Center frequency	f_c	—	2450,0	—	MHz
Maximum insertion attenuation	α_{\max}				
	2400,0 ... 2500,0 MHz	—	2,8	3,3	dB
Return loss					
	2400,0 ... 2500,0 MHz	9,6	12,0	—	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



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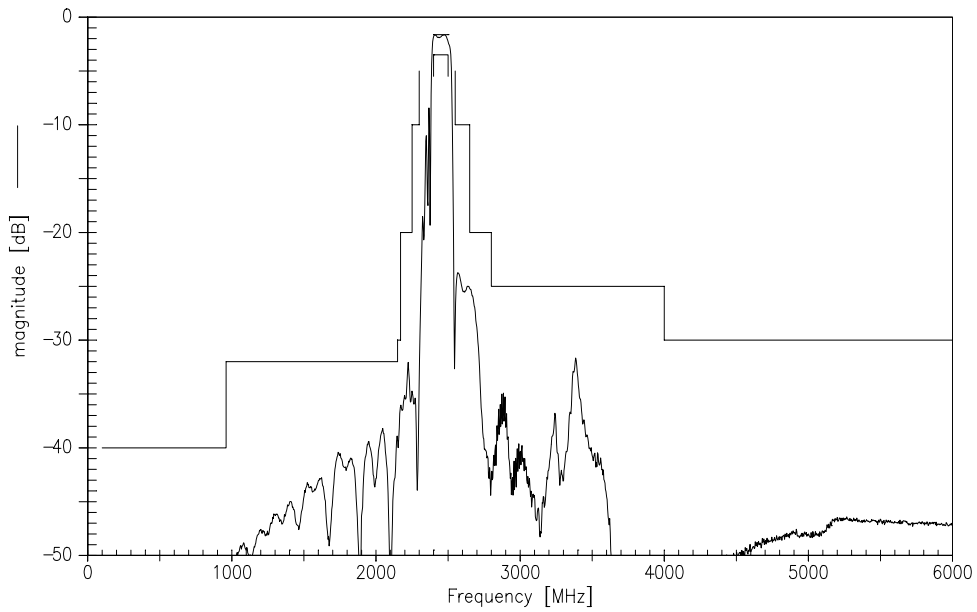
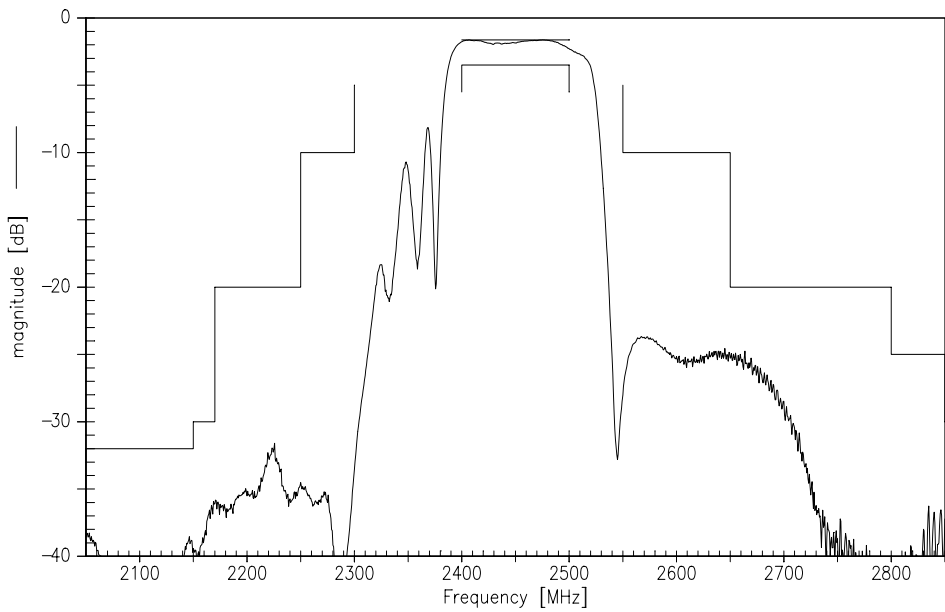
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 Terminating load impedance: $Z_L = 60 \Omega - 3,5$ nH (serial)

		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				
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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



Transfer function





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