



SAW Components

Data Sheet B7841





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B7841

Low-Loss Filter

2441,75 MHz

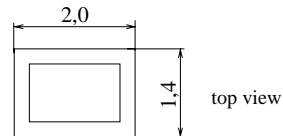
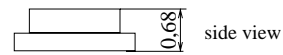
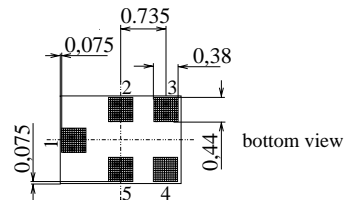
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Chip Sized Saw Package

Features

- Low-loss RF filter for bluetooth
- Usable passband 83,5 MHz
- Unbalanced to unbalanced operation
- Package for **Surface Mounted Technology (SMT)**



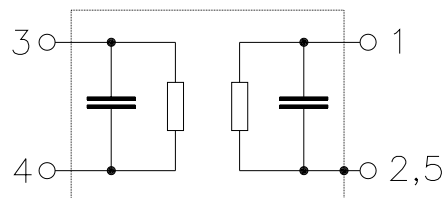
Terminals

- Ni, gold-plated

Dimensions in mm, approx. weight 0,007g

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
B7841	B39242-B7841-C710	C61157-A7-A82	F61074-V8151-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 40 /+ 85	°C	Machine Model, 10 pulses
Storage temperature range	T_{stg}	- 40 /+ 85	°C	
DC voltage	V_{DC}	3	V	
ESD voltage	V_{ESD}	50*	V	
Input power max. 2400...2483,5 MHz 824...915, 1710...1980 MHz	P_{IN}	6 15	dBm	source/load impedance 50Ω

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



Characteristics

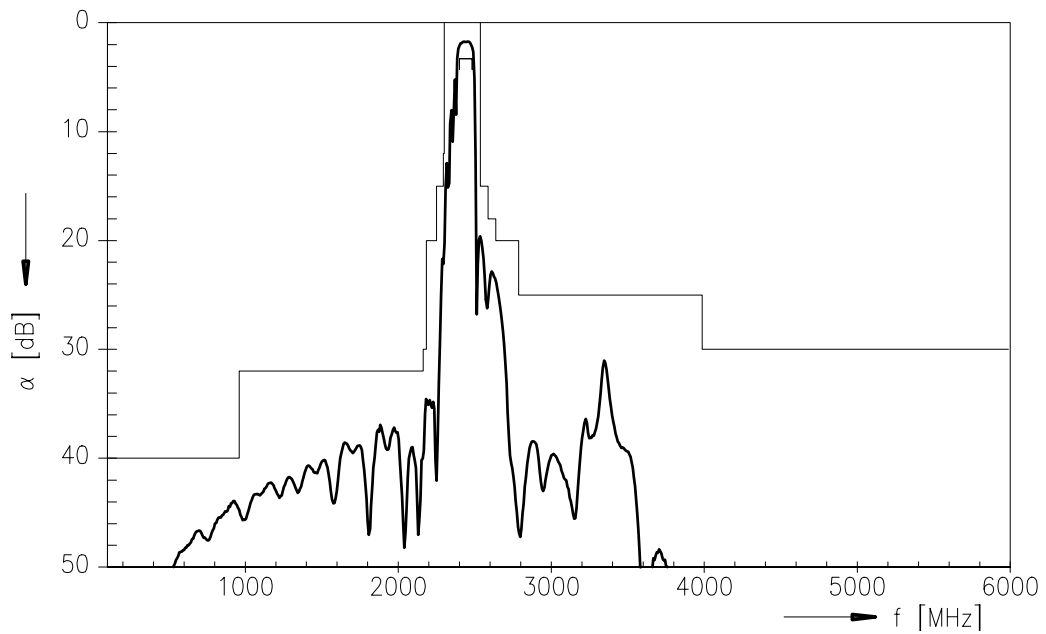
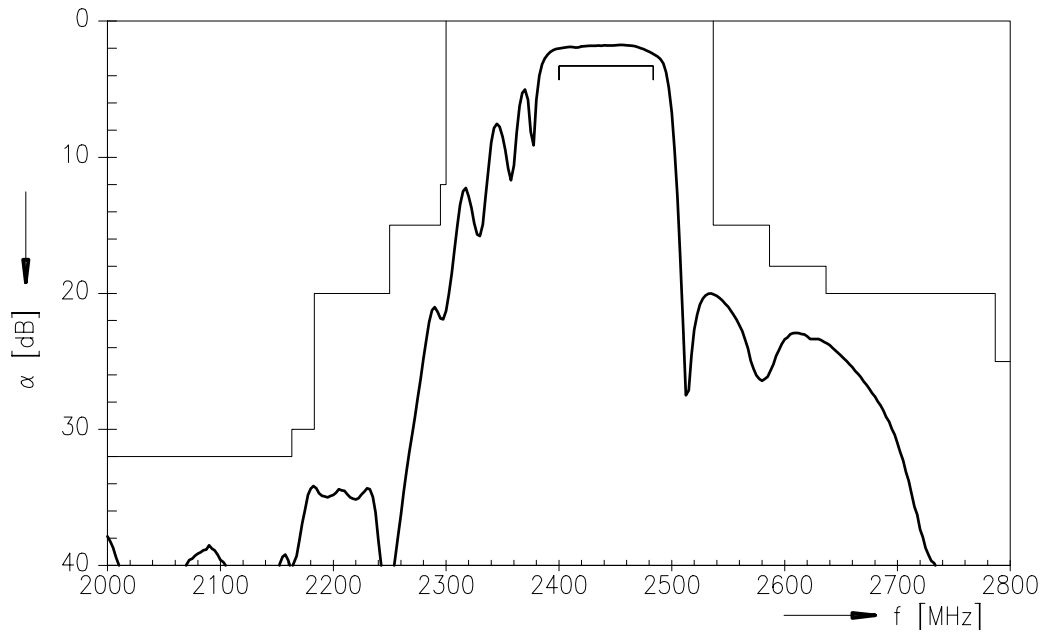
Operating temperature range: $T = -40$ to $+85$ °C
 Terminating source impedance: $Z_S = 50 \Omega - 1,5$ nH (serial)
 Terminating load impedance: $Z_L = 50 \Omega - 2,5$ nH (serial)

		min.	typ.	max.	
Center frequency	f_c	—	2441,75	—	MHz
Maximum insertion attenuation	α_{max}				
	2400,0 ... 2483,5 MHz	—	2,2	3,3	dB
Return loss					
	2400,0 ... 2483,5 MHz*)	9,0	11,5	—	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
	2400,0 ... 2483,5 MHz	—	0,5	1,5	dB
Attenuation	α				
	100,0 ... 960,0 MHz	40	44	—	dB
	960,0 ... 2150,0 MHz	32	38	—	dB
	2150,0 ... 2170,0 MHz	30	36	—	dB
	2170,0 ... 2250,0 MHz	20	35	—	dB
	2250,0 ... 2295,0 MHz	15	21	—	dB
	2295,0 ... 2300,0 MHz	12	20	—	dB
	2550,0 ... 2600,0 MHz	15	20	—	dB
	2600,0 ... 2650,0 MHz	18	23	—	dB
	2650,0 ... 2800,0 MHz	20	24	—	dB
	2800,0 ... 4000,0 MHz	25	30	—	dB
	4000,0 ... 6000,0 MHz	30	50	—	dB

*) $T = +25$ °C



Transfer function





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