



SAW Filters for Mobile Communications

Series/Type: **B7841**

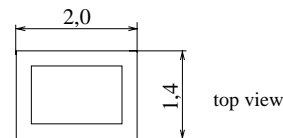
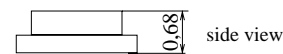
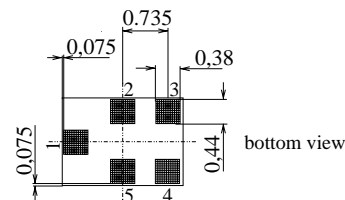
The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39242B7841C710		2009-12-18	2010-06-30	2010-09-30

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.


Features

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

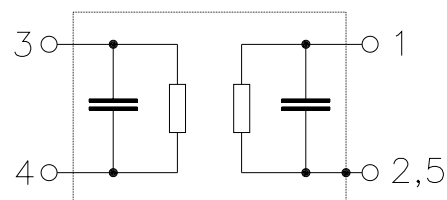

Terminals

- 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

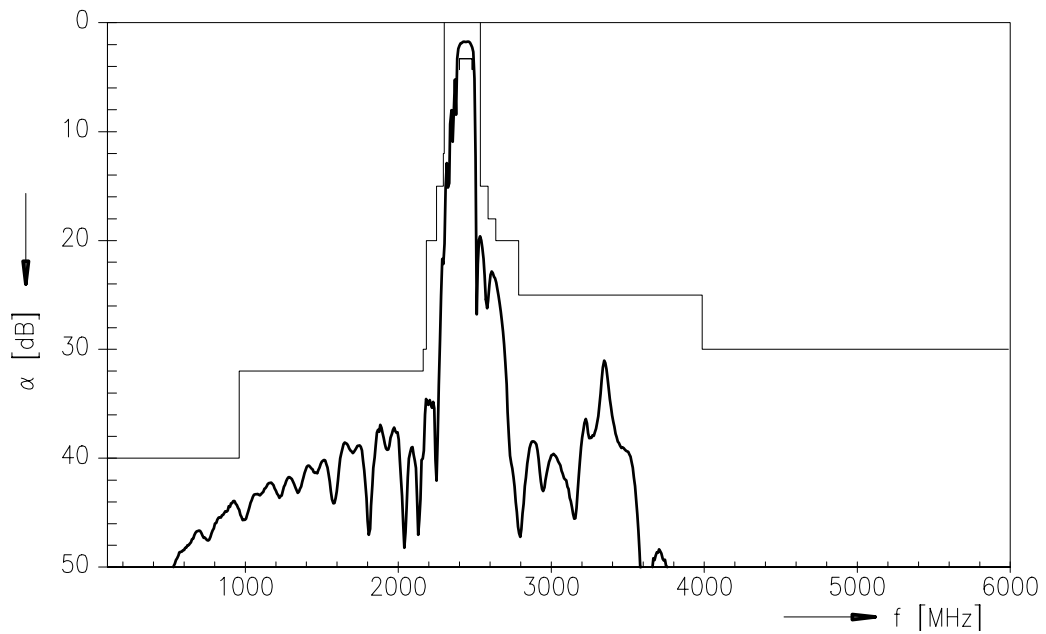
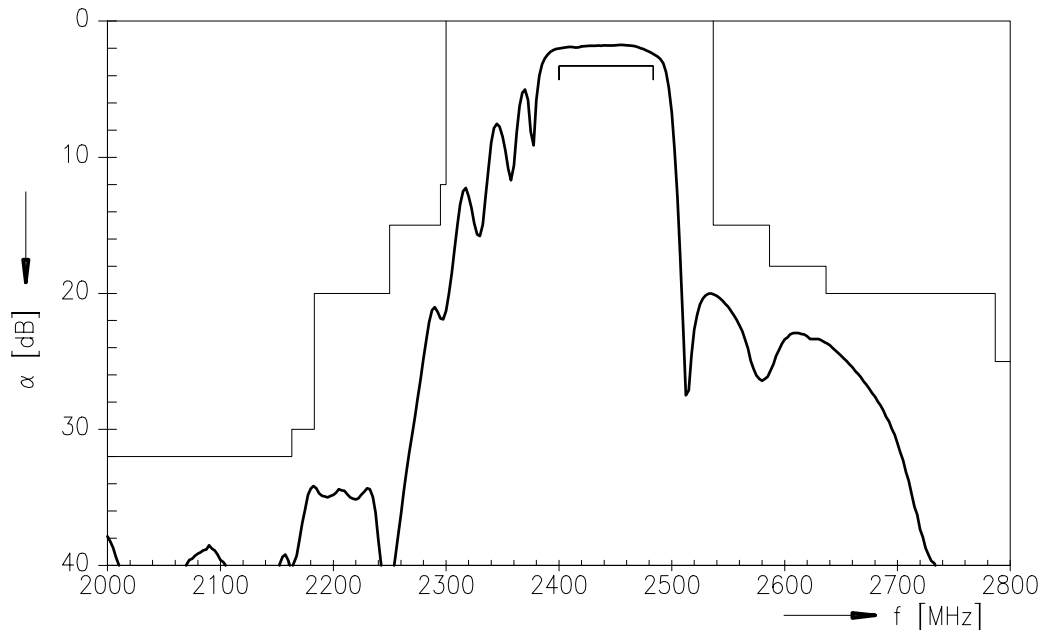

Characteristics

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

		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

 *) $T = +25 \text{ }^\circ\text{C}$

Transfer function



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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.

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