



# SAW Filters for Mobile Communications

## Series/Type: B7841

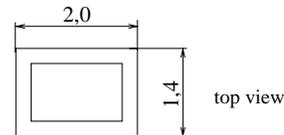
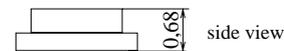
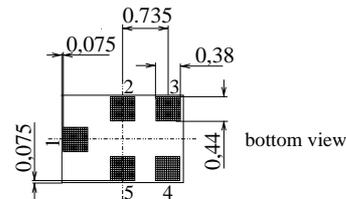
The following products presented in this data sheet are being withdrawn.

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](http://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)**

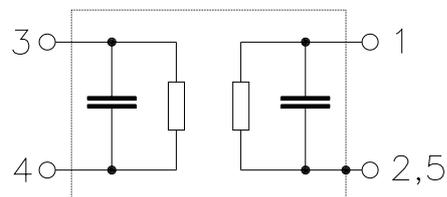

**Terminals**

- 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 &amp; 10 positive pulses


**Characteristics**

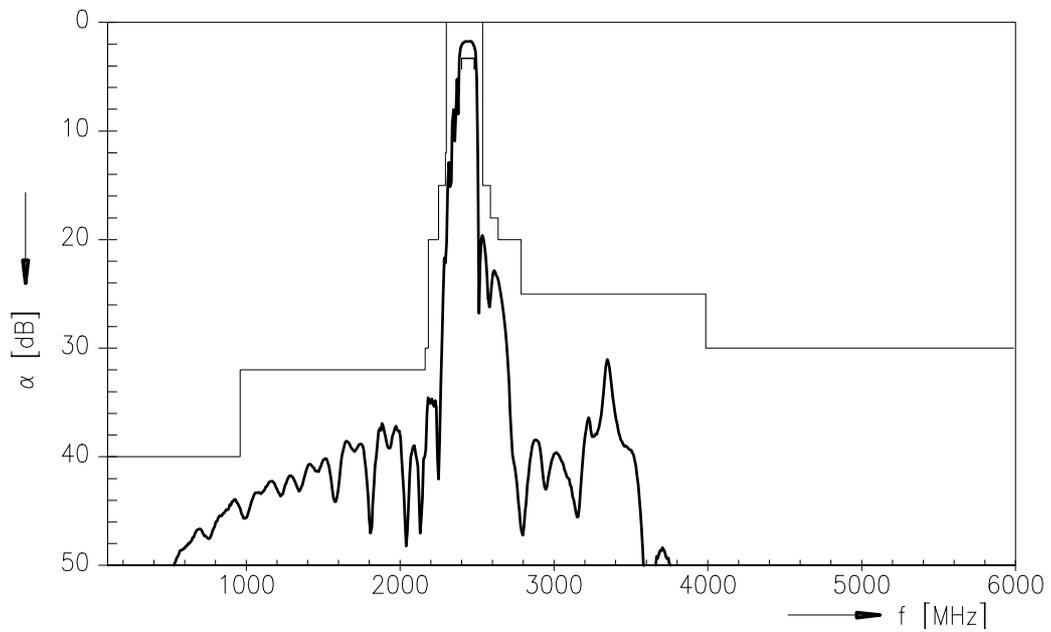
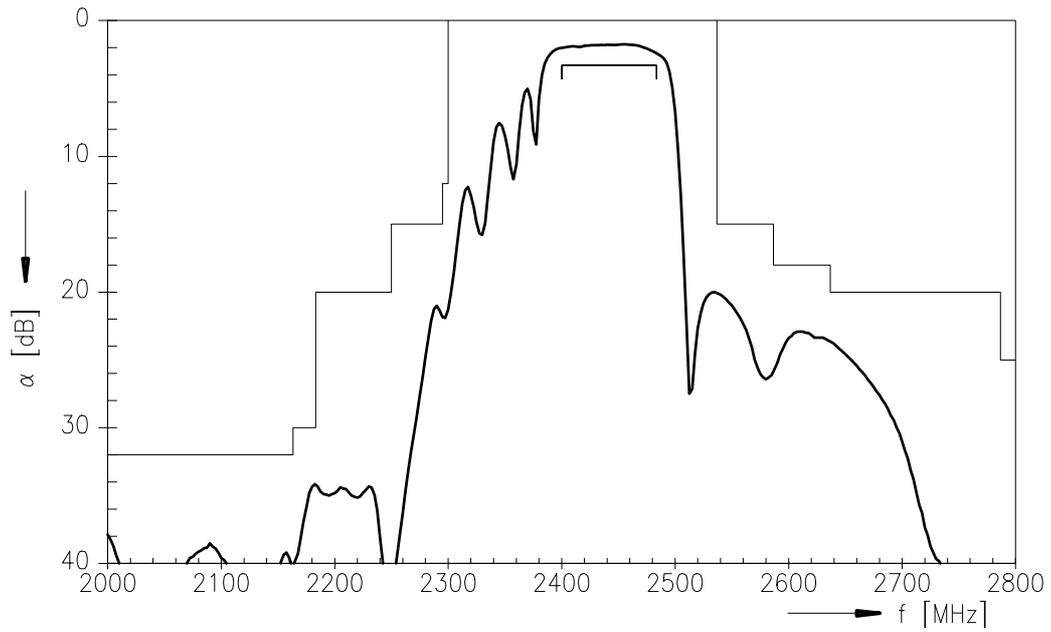
Operating temperature range:  $T = -40$  to  $+85$  °C  
 Terminating source impedance:  $Z_S = 50 \Omega - 1,5$  nH (serial)  
 Terminating load impedance:  $Z_L = 50 \Omega - 2,5$  nH (serial)

		min.	typ.	max.	
<b>Center frequency</b>	$f_c$	—	2441,75	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{max}$				
	2400,0 ... 2483,5 MHz	—	2,2	3,3	dB
<b>Return loss</b>					
	2400,0 ... 2483,5 MHz*)	9,0	11,5	—	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$				
	2400,0 ... 2483,5 MHz	—	0,5	1,5	dB
<b>Attenuation</b>	$\alpha$				
	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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This brochure replaces the previous edition.

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