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The following products presented in this data sheet are being withdrawn.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

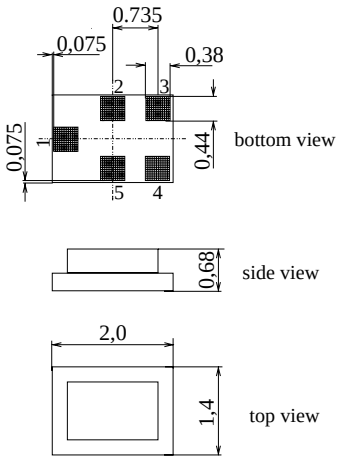
For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.

Data Sheet SMD

Chip Sized Saw Package

Features

- Low-loss RF filter for bluetooth
- Usable passband 83,5 MHz
- Unbalanced to unbalanced operation
- Package for **S**urface **M**ounted **T**echnology (**SMT**)



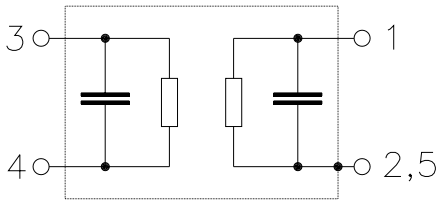
Terminals

- 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 **S**ensitive **D**evice (**ESD**)

Maximum ratings

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

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

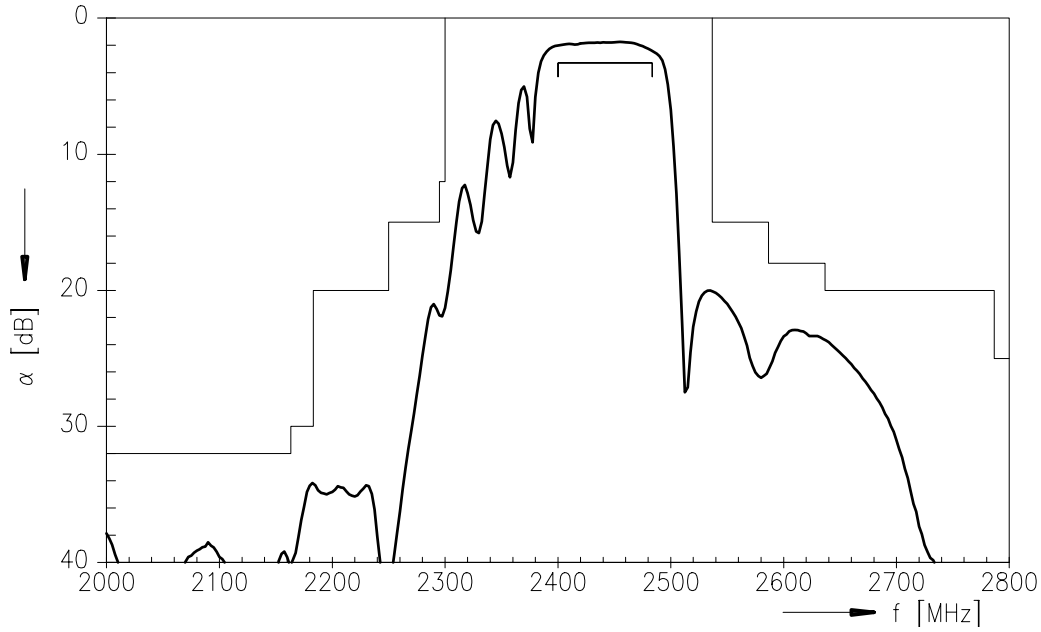
Characteristics

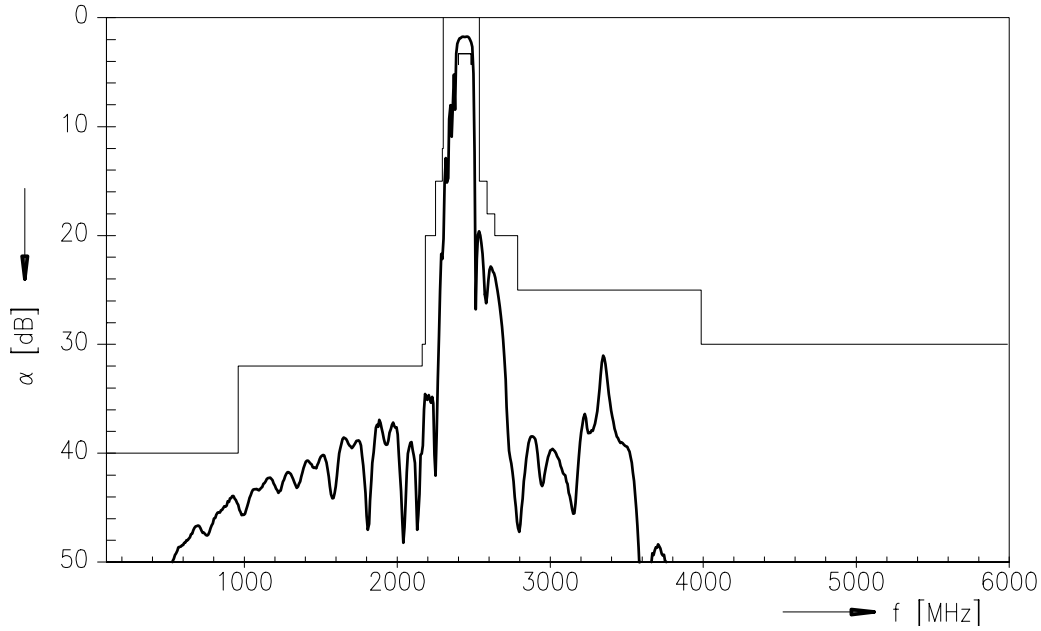
Operating temperature range: T = -40 to + 85 °C
Terminating source impedance: Z_S = 50 Ω – 1,5 nH (serial)
Terminating load impedance: Z_L = 50 Ω – 2,5 nH (serial)

		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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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.