SAW filters for infrastructure systems

Series/Type: B7842

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39881B7842C710	B39881B9022E610	2010-06-25	2011-06-30	2011-09-30

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

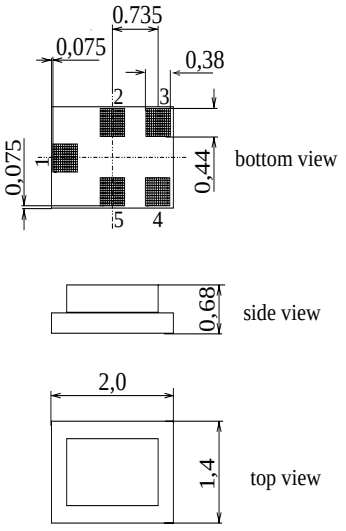
Features

- Low-loss RF filter for mobile telephone GSM850 systems, receive path
- Usable passband 25 MHz
- Unbalanced operation
- Impedance 50 Ω input and output
- Suitable for GPRS Class 1 to 12
- Ceramic Package for **S**urface **M**ounted **T**echnology (**SMT**)

Terminals

- Ni, gold-plated

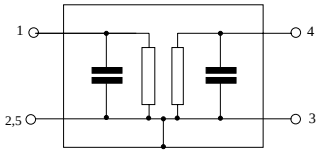
Chip sized SAW package QCS5C



Dimensions in mm, approx. weight 0,007 g

Pin configuration

1	Input, unbalanced
4	Output, unbalanced
2, 3, 5	Case ground
2, 3, 5	to be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B7842	B39881-B7842-C710	C61157-A7-A111	F61074-V8151-Z0000

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

Maximum ratings

Operable temperature range	T	– 30 / + 85	˚C
Storage temperature range	T_{stg}	– 40 / + 85	˚C
DC voltage	V_{DC}	5	V
Input power max.	P_{IN}	15	dBm

Characteristics

Operating temperature: T = 25 ± 2 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

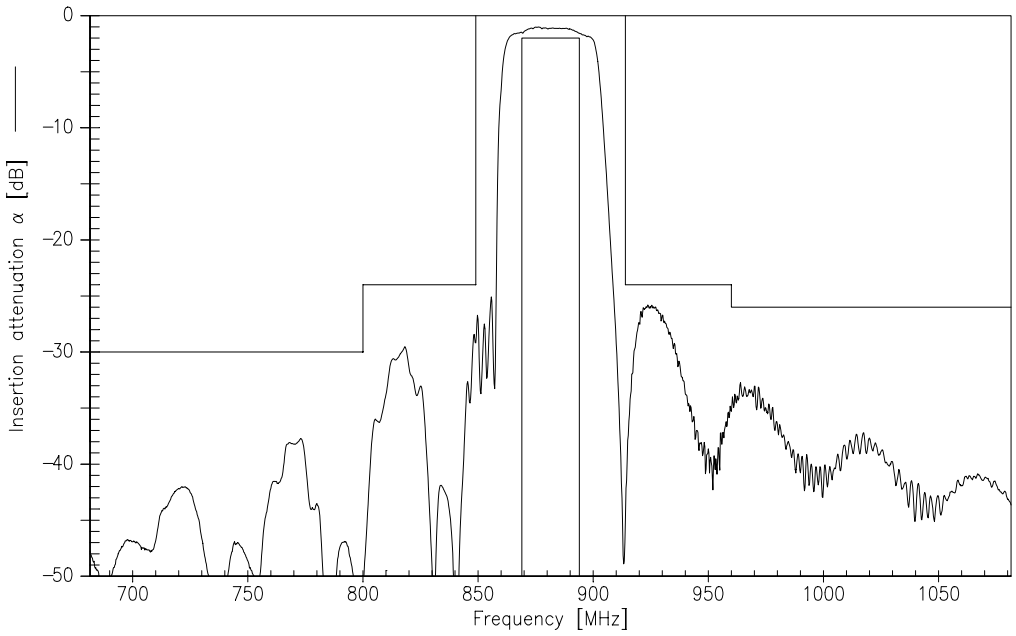
		min.	typ.	max.	
Center frequency	f_C	—	881,5	—	MHz
Maximum insertion attenuation	α_{max}				
869,0 ... 894,0 MHz		—	1,6	2,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
869,0 ... 894,0 MHz		—	0,6	1,0	dB
Input VSWR					
869,0 ... 894,0 MHz		—	1,7	2,0	
Output VSWR					
869,0 ... 894,0 MHz		—	1,7	2,0	
Attenuation	α				
0,0 ... 450,0 MHz		38,0	44,0	—	dB
450,0 ... 800,0 MHz		30,0	35,0	—	dB
800,0 ... 849,0 MHz		24,0	26,0	—	dB
914,0 ... 960,0 MHz		24,0	26,0	—	dB
960,0 ...6000,0 MHz		26,0	33,0	—	dB

Characteristics

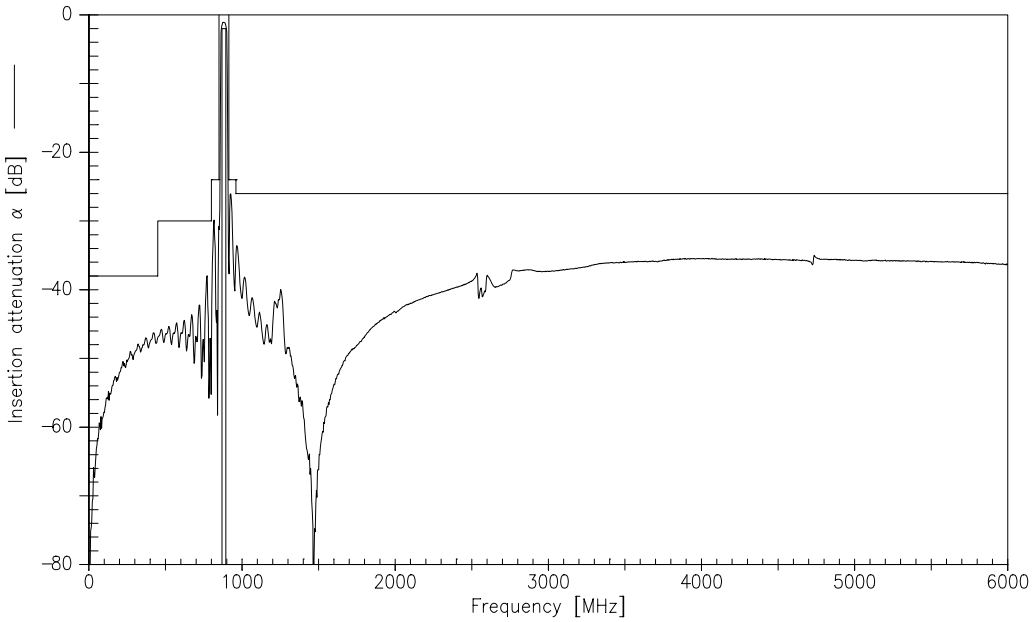
Operating temperature: T = -30 ... +85 ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

				min.	typ.	max.	
Center frequency			f_C	—	881,5	—	MHz
Maximum insertion attenuation			α_{max}				
	869,0	... 894,0	MHz	—	1,6	2,2	dB
Amplitude ripple (p-p)			$\Delta\alpha$				
	869,0	... 894,0	MHz	—	0,6	1,3	dB
Input VSWR							
	869,0	... 894,0	MHz	—	1,7	2,1	
Output VSWR							
	869,0	... 894,0	MHz	—	1,7	2,1	
Attenuation			α				
	0,0	... 450,0	MHz	38,0	44,0	—	dB
	450,0	... 800,0	MHz	30,0	35,0	—	dB
	800,0	... 849,0	MHz	24,0	26,0	—	dB
	914,0	... 960,0	MHz	24,0	26,0	—	dB
	960,0	...6000,0	MHz	26,0	33,0	—	dB

Transfer function (Narrowband measurement)



Transfer function (Wideband measurement)



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This brochure replaces the previous edition.

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