EPCOS

SAW Components

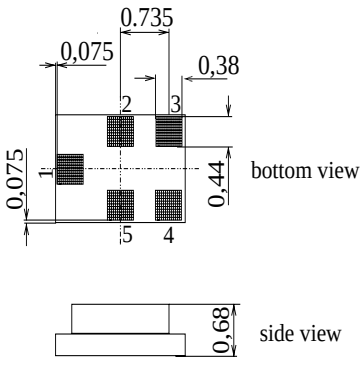
Data Sheet B7842

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**)

Chip sized SAW package QCS5C



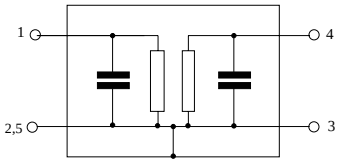
Dimensions in mm, approx. weight 0,007 g

Terminals

- Ni, gold-plated

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

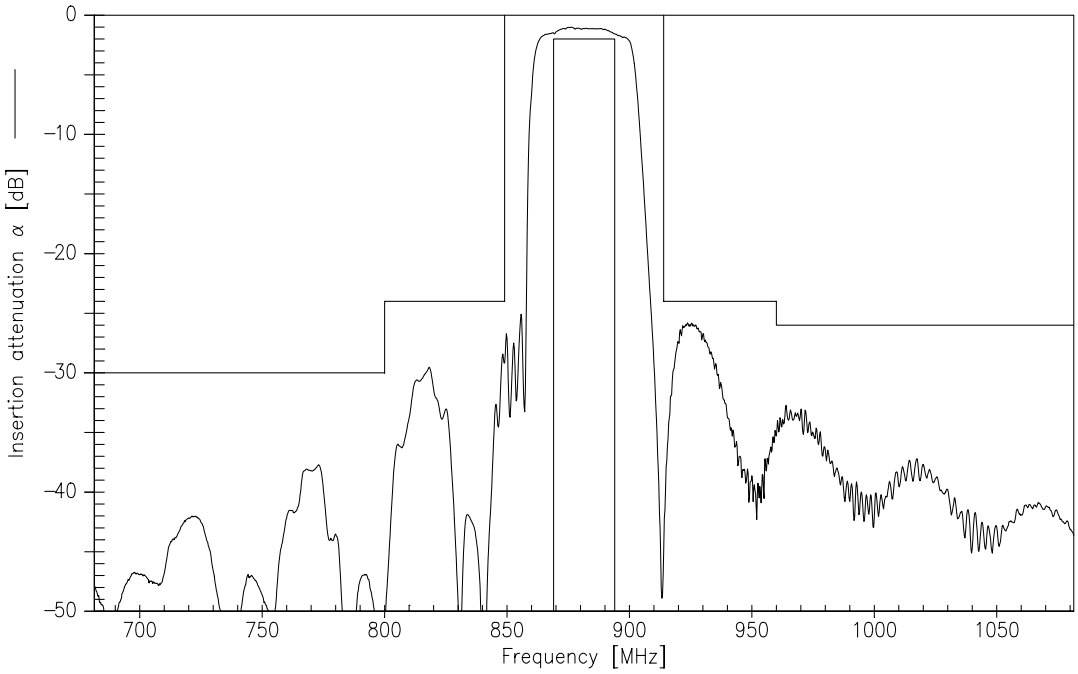
		min.	typ.	max.	
Center frequency	f_C	—	881,5	—	MHz
Maximum insertion attenuation	α_{max}				
869,0 ... 894,0 MHz		—	1,6	2,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
869,0 ... 894,0 MHz		—	0,6	1,0	dB
Input VSWR					
869,0 ... 894,0 MHz		—	1,7	2,0	
Output VSWR					
869,0 ... 894,0 MHz		—	1,7	2,0	
Attenuation	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

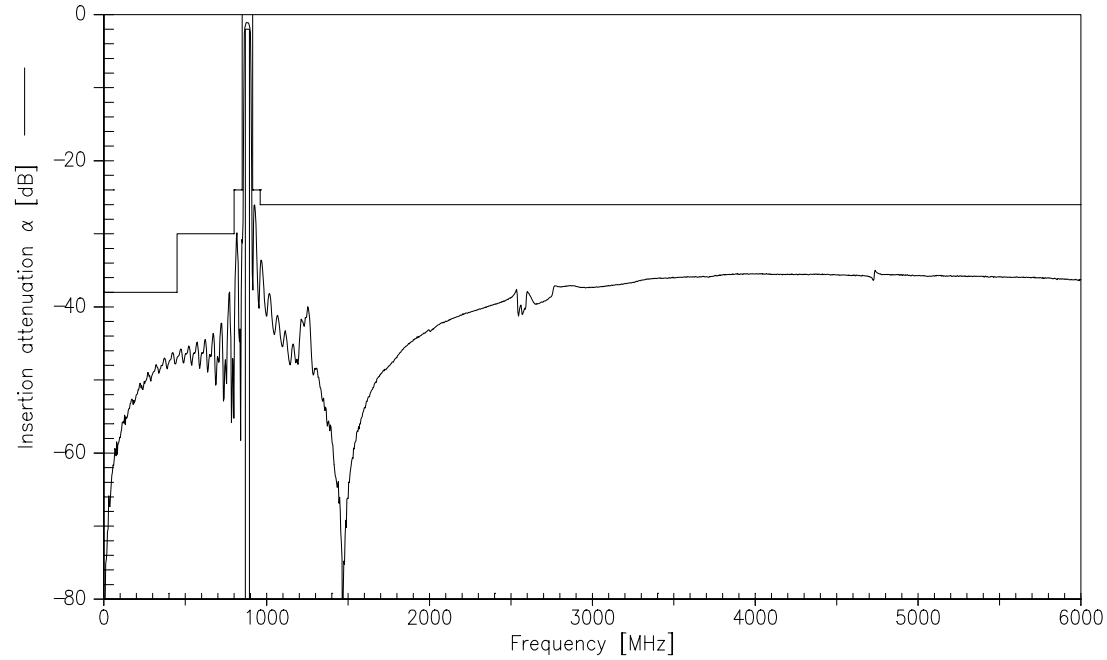
Operating temperature: T = -30 ... +85 ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		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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