



SAW Components

Data Sheet B7836

Data Sheet



EPCOS

SAW Components
B7836
Low-Loss Filter for Mobile Communication
1501,5 MHz
Preliminary Data

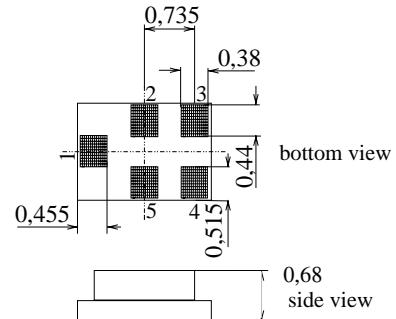

Chip sized SAW package QCS5C

Features

- Low-loss RF filter for PDC system, receive path
- Small insertion attenuation
- Low amplitude ripple
- Package for Surface Mounted Technology (SMT)
- Chip Sized SAW Package (CSSP)

Terminals

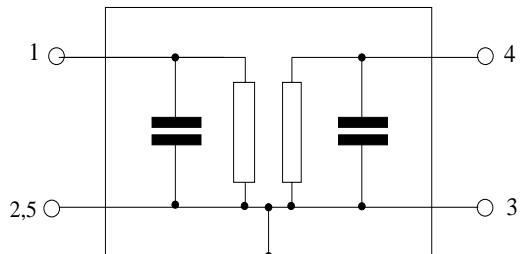
- Gold-plated Ni



Dimensions in mm, approx. weight 0,007 g

Pin configuration

1	Input
4,	Output
2, 3, 5	To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B7836	B39152-B7836-C710	C61157-A7-A111	F61074-V8151-Z000

Electrostatic Sensitive Device (ESD)
Maximum ratings

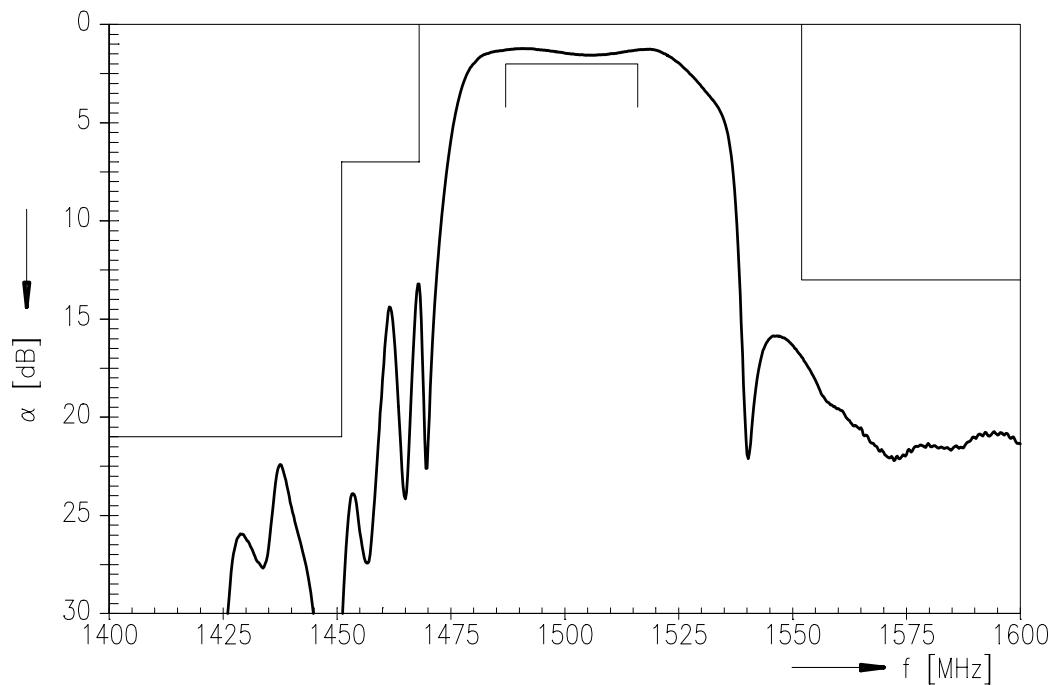
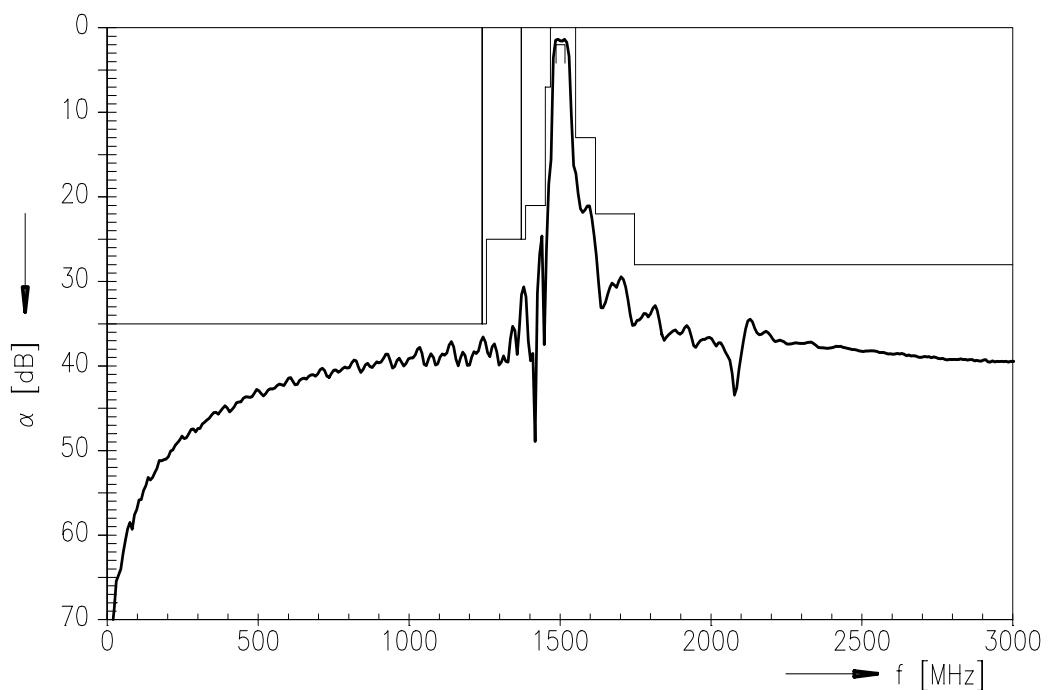
Operating temperature range	T	- 20/+ 85	°C	
Storage temperature range	T_{stg}	- 40/+ 85	°C	
DC voltage	V_{DC}	3	V	
Source power	P_S	13	dBm	duty cycle 1:3, source and load impedance 50 Ω

**SAW Components****B7836****Low-Loss Filter for Mobile Communication****1501,5 MHz****Preliminary Data****Characteristics**Operating temperature range: $T = +25 \pm 2^\circ\text{C}$ Terminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 50 \Omega$

			min.	typ.	max.	
Center frequency	f_C		—	1501,5	—	MHz
Maximum insertion attenuation	α_{\max}		—	1,5	2,0	dB
1487,0 ... 1516,0 MHz						
Amplitude ripple (p-p)	$\Delta\alpha$		—	0,3	0,8	dB
1487,0 ... 1516,0 MHz						
Absolute attenuation	α					
1227,0 ... 1256,0 MHz		35	36	—	—	dB
1241,5 MHz		35	36	—	—	dB
1357,0 ... 1386,0 MHz		25	30	—	—	dB
1371,5 MHz		25	30	—	—	dB
1422,0 ... 1451,0 MHz		21	23	—	—	dB
1451,0 ... 1468,0 MHz		11	15	—	—	dB
1552,0 ... 1581,0 MHz		13	16	—	—	dB
1617,0 ... 1646,0 MHz		22	27	—	—	dB
1747,0 ... 1776,0 MHz		28	34	—	—	dB

**SAW Components****B7836****Low-Loss Filter for Mobile Communication****1501,5 MHz****Preliminary Data****Characteristics**Operating temperature range: $T = -20$ to $+85$ °CTerminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 50 \Omega$

			min.	typ.	max.	
Center frequency	f_C		—	1501,5	—	MHz
Maximum insertion attenuation	α_{max}		—	1,5	2,0	dB
1487,0 ... 1516,0 MHz						
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1357,0 ... 1386,0 MHz		25	30	—	dB	
1371,5 MHz		25	30	—	dB	
1422,0 ... 1451,0 MHz		21	23	—	dB	
1451,0 ... 1468,0 MHz		7	13	—	dB	
1552,0 ... 1581,0 MHz		13	16	—	dB	
1617,0 ... 1646,0 MHz		22	25	—	dB	
1747,0 ... 1776,0 MHz		28	34	—	dB	

Transfer function (pass band) :

Transfer function (broad band) :




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Preliminary Data	The logo for Surface Mount Device (SMD), consisting of the letters "SMD" in a stylized, blocky font.

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