EPCOS

SAW Components

Data Sheet B7843

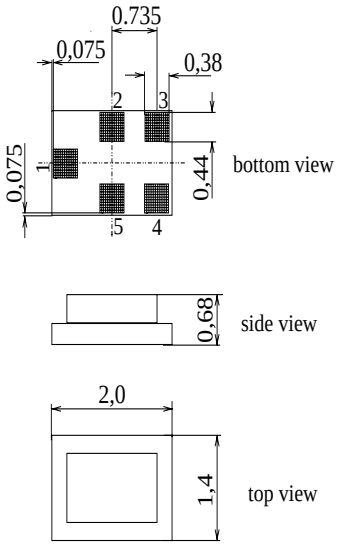
Chip sized SAW package

Features

- Low-loss RF filter for mobile telephone Korean PCS systems, receive path
- Usable passband 30 MHz
- Unbalanced to balanced operation
- Impedance transformation from 50 Ω to 100 Ω
- Ceramic package for **S**urface **M**ounted technology (**SMT**)

Terminals

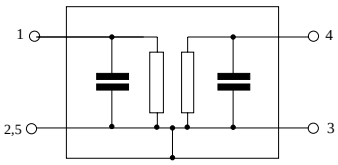
- Ni, gold-plated



Dimensions in mm, approx. weight 0,009 g

Pin configuration

1	Input
3, 4	Balanced Output
2,5	Case ground



Type	Ordering code	Marking and Package according to	Packing according to
B7843	B39192-B7843-C710	C61157-A7-A111	F61074-V8151-Z000

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

Maximum ratings

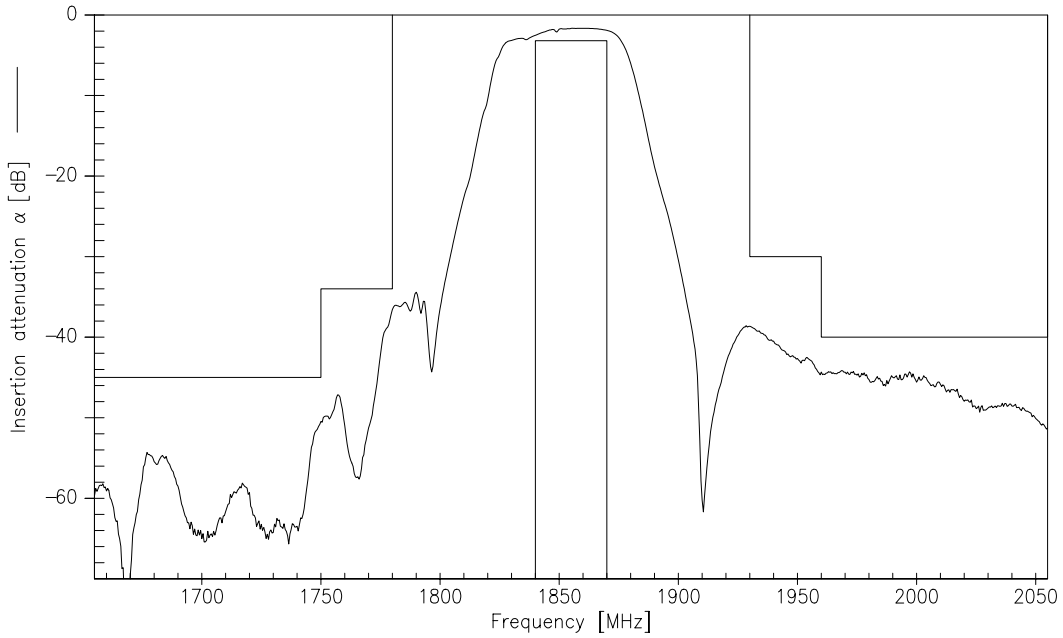
Operable temperature range	T	– 30/+ 85	˚C	
Storage temperature range	T_{stg}	– 40/+ 85	˚C	
DC voltage	V_{DC}	0	V	
Input power max.	P_{IN}	0	dBm	CDMA signal

Characteristics

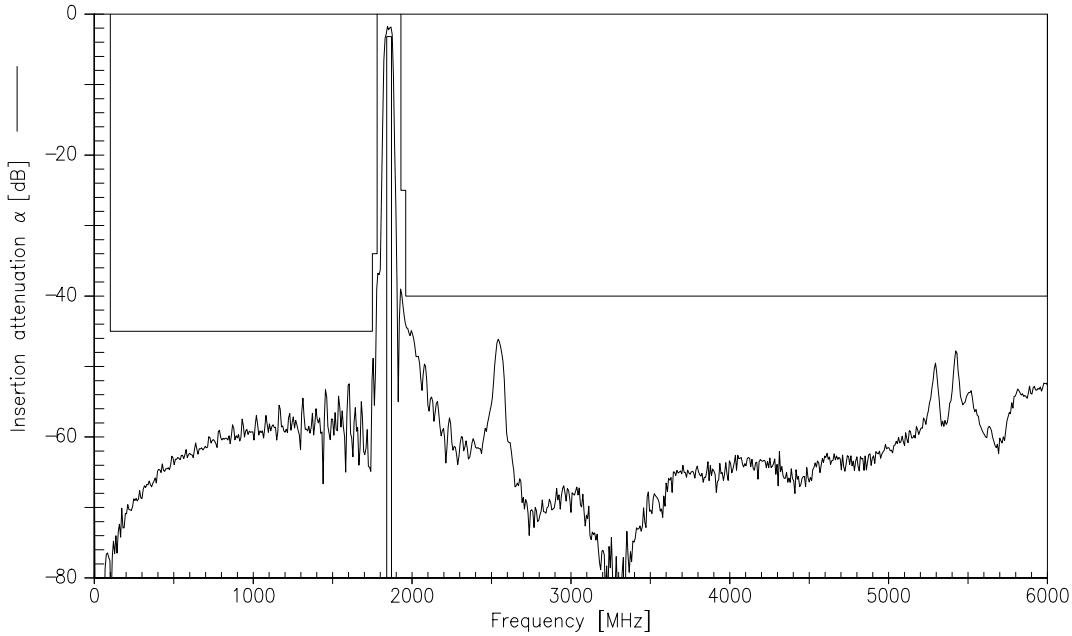
Operating temperature range: T = -30 to + 85˚C
Terminating source impedance: Z_S = 50 Ω (unbalanced)
Terminating load impedance: Z_L = 100Ω (balanced)

		min.	typ.	max.	
Center frequency	f_c	—	1855,0	—	MHz
Maximum insertion attenuation	α_{max}				
1840,0 ...1870,0 MHz		—	3,0	3,2	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
1840,0 ...1870,0 MHz		—	1,3	1,5	dB
Output phase balance ($\phi(S_{31})-\phi(S_{21})+180^\circ$)					
1840,0 ...1870,0 MHz		-10	—	10	˚
Output amplitude balance ($\lvert S_{31}/S_{21}\rvert$)					
1840,0 ...1870,0 MHz		-1,0	—	1,0	dB
Input VSWR					
1840,0 ...1870,0 MHz		—	2,0	2,1	
Output VSWR					
1840,0 ...1870,0 MHz		—	2,2	2,3	
Attenuation	α				
100,0 ...1750,0 MHz		45,0	50,0	—	dB
1750,0 ...1780,0 MHz		34,0	36,0	—	dB
1930,0 ...1960,0 MHz		30,0	38,0	—	dB
1960,0 ...6000,0 MHz		40,0	43,0	—	dB

Transfer function (measurement)



Transfer function (wideband measurementt)



Published by EPCOS AG
Surface Acoustic Wave Components Division, SAW MC WT
P.O. Box 80 17 09, 81617 Munich, GERMANY

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This brochure replaces the previous edition.

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