![EPCOS logo]

SAW Components

Data Sheet B7731

SAW Components   B7731

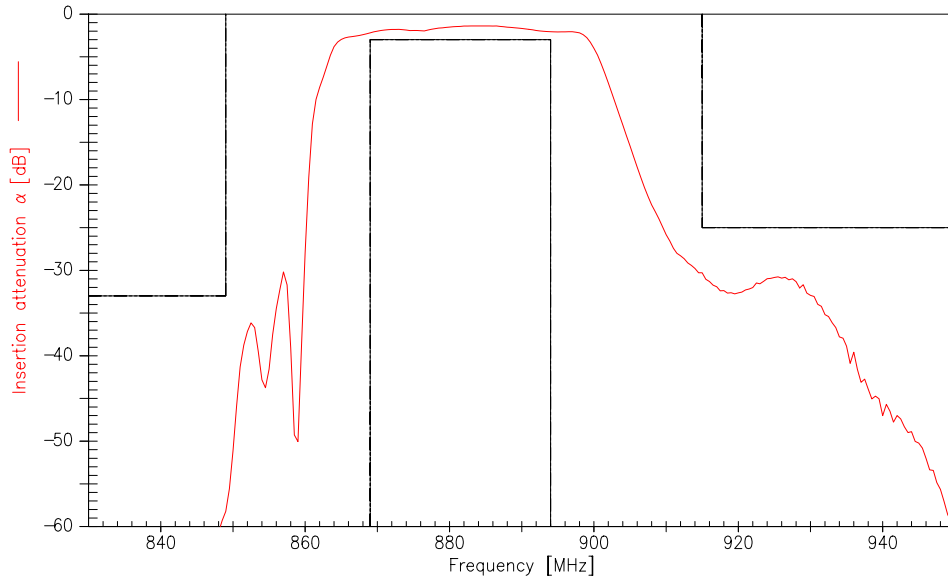## Low-Loss Filter for Mobile Communication   881,5 MHz

Data Sheet

Chip Size SAW package QCS5A

Features

- Low-loss RF filter for mobile telephone cellular system, receive path
- Low amplitude ripple
- Usable passband 25 MHz
- Unbalanced to balanced operation
- Impedance transformation from 50 Ω to 100 Ω
- Package for **S**urface **M**ounted **T**echnology **(SMT)**

Dimensions in mm, approx. weight 0,015g

Terminals

- Ni, gold-plated

Pin configuration

1	Input,unbalanced
3,4	Balanced output
2,5	Case ground

Type	Ordering code	Marking and Package according to	Packing according to
B7731	B39881-B7731-B610	C61157-A7-A71	F61074-V8153-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}	5	V	
Input power max.	P_{IN}	0	dBm	source impedance 50 Ω CDMA signal

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SAW Components	B7731
Low-Loss Filter for Mobile Communication	**881,5 MHz**

Data Sheet   SMD

Characteristics

Operating temperature range: T = -30 to +85 ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 100 Ω
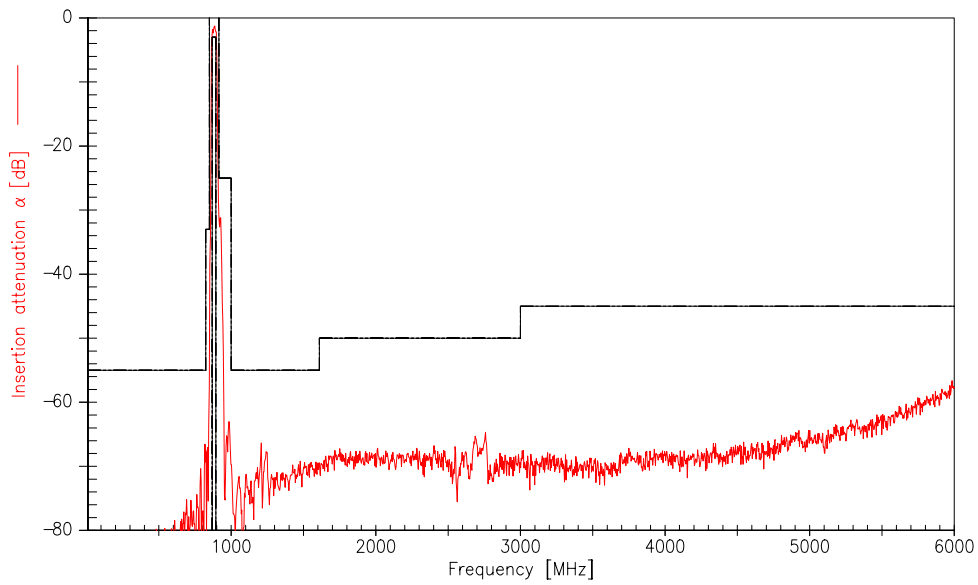
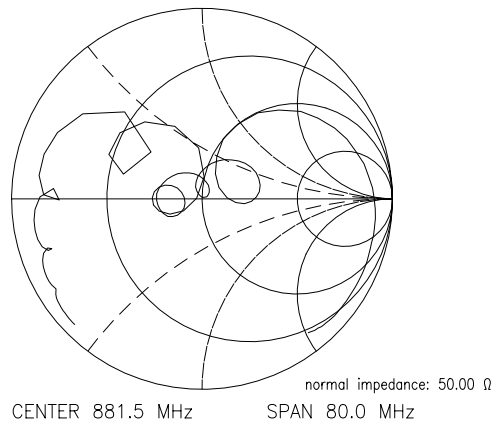|				min.	typ.	max.	
Center frequency			f_C	—	881,5	—	MHz
Maximum insertion attenuation			α_{max}				
	869,0 ... 894,0	MHz		—	2,4	3,0	dB
Amplitude ripple (p-p)			$\Delta\alpha$				
	869,0 ... 894,0	MHz		—	1,0	1,6	dB
Input VSWR							
	869,0 ... 894,0	MHz		—	1,9	2,0	
Output VSWR							
	869,0 ... 894,0	MHz		—	2,0	2,1	
Attenuation			α				
	0,0 ... 824,0	MHz		55,0	64,0	—	dB
	824,0 ... 849,0	MHz		33,0	50,0	—	dB
	915,0 ...1000,0	MHz		25,0	31,0	—	dB
	1000,0 ...1610,0	MHz		55,0	63,0	—	dB
	1610,0 ...3000,0	MHz		50,0	64,0	—	dB
	3000,0 ...6000,0	MHz		45,0	68,0	—	dB
Amplitude Imbalance				-0,8	—	0,8	dB
Phase Imbalance				-4,5	—	3,5	degree

Transfer function

Transfer function (wideband)

SAW Components

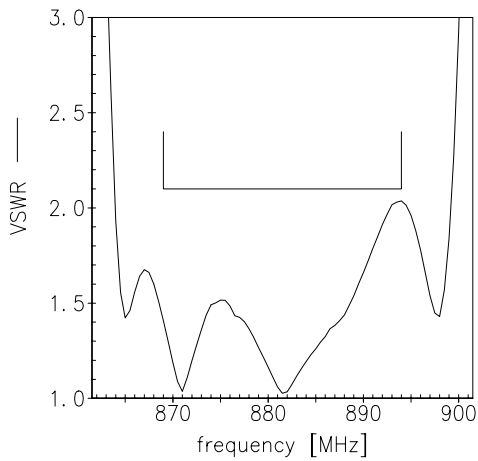## Low-Loss Filter for Mobile Communication

Data Sheet

B7731

881,5 MHz

SMD

S_{11}
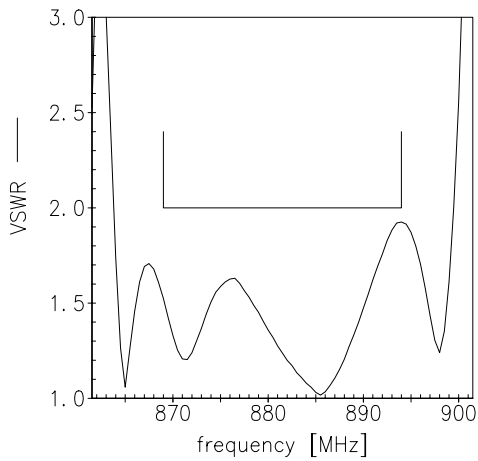
S_{22}
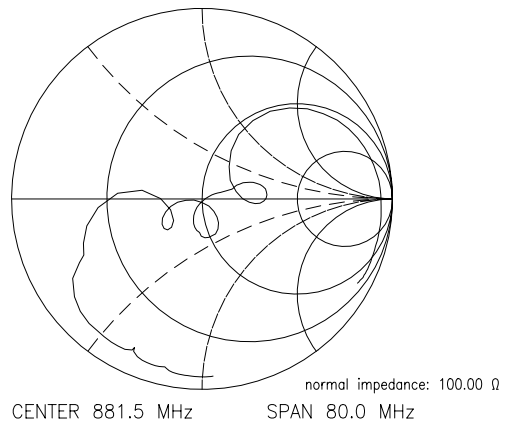
Amplitude imbalance
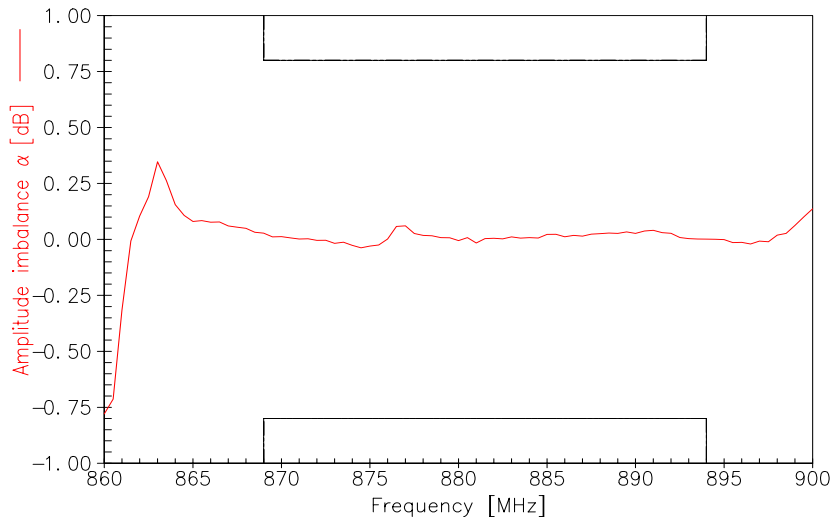
Phase imbalance
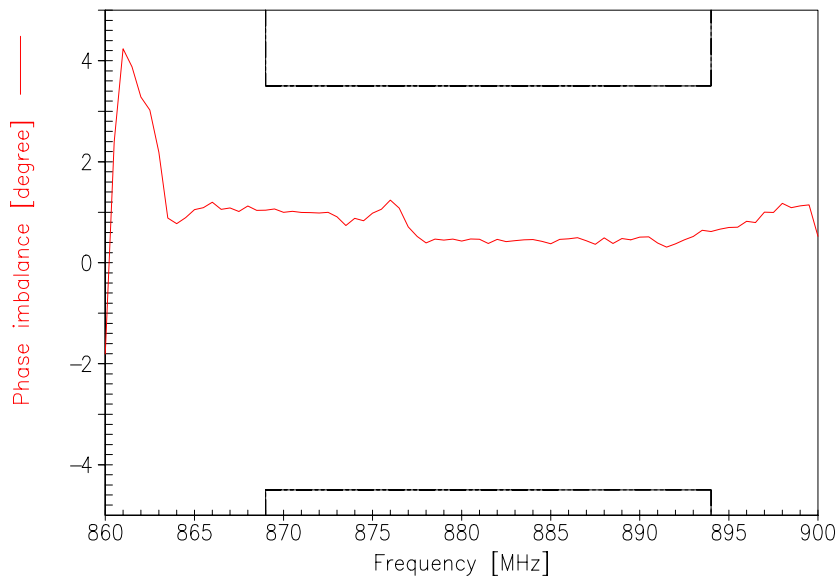
Published by EPCOS AG
Surface Acoustic Wave Components Division, SAW MC WT
P.O. Box 80 17 09, 81617 Munich, GERMANY

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