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Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





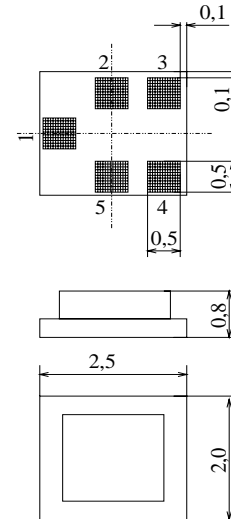
# *SAW Components*

*Data Sheet B7731*



**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  $\Omega$  to 100  $\Omega$
- Package for **Surface Mounted Technology (SMT)**

**Chip Size SAW package QCS5A**


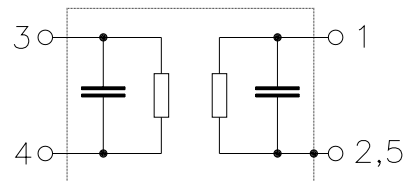
Dimensions in mm, approx. weight 0,015g

**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 Sensitive Device (ESD)

**Maximum ratings**

Operable temperature range	$T$	- 30 / + 85	$^{\circ}\text{C}$	source impedance 50 $\Omega$ CDMA signal
Storage temperature range	$T_{\text{stg}}$	- 40 / + 85	$^{\circ}\text{C}$	
DC voltage	$V_{\text{DC}}$	5	V	
Input power max.	$P_{\text{IN}}$	0	dBm	



SAW Components

B7731

Low-Loss Filter for Mobile Communication

881,5 MHz

Data Sheet



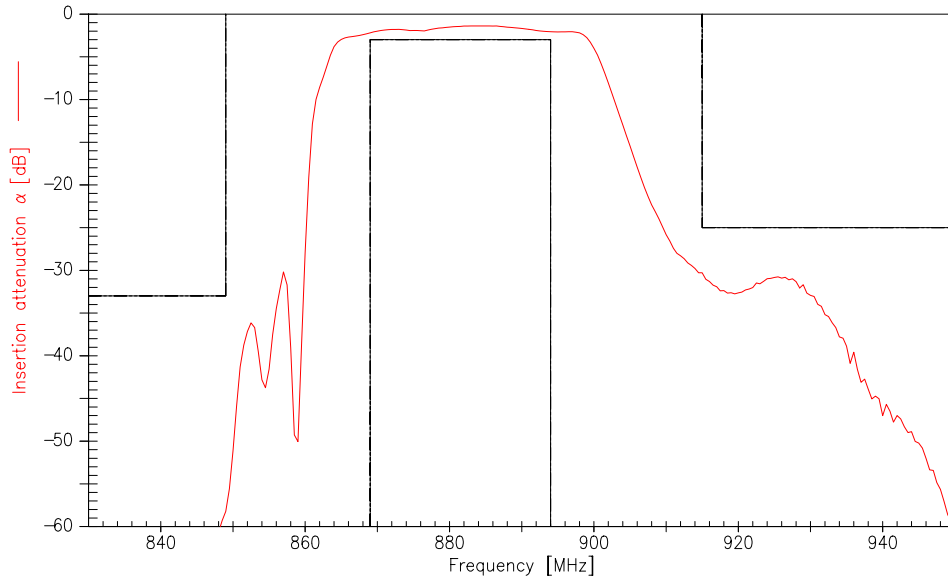
**Characteristics**

Operating temperature range:  $T = -30$  to  $+85$  °C  
 Terminating source impedance:  $Z_S = 50 \Omega$   
 Terminating load impedance:  $Z_L = 100 \Omega$

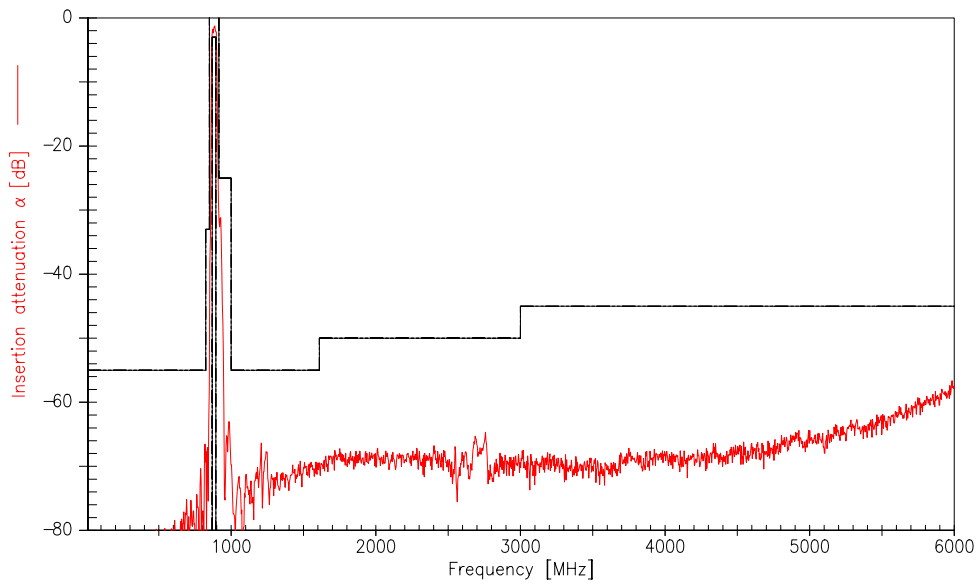
			min.	typ.	max.	
<b>Center frequency</b>	$f_C$		—	881,5	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{max}$					
	869,0 ... 894,0 MHz		—	2,4	3,0	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$					
	869,0 ... 894,0 MHz		—	1,0	1,6	dB
<b>Input VSWR</b>						
	869,0 ... 894,0 MHz		—	1,9	2,0	
<b>Output VSWR</b>						
	869,0 ... 894,0 MHz		—	2,0	2,1	
<b>Attenuation</b>	$\alpha$					
	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
<b>Amplitude Imbalance</b>			-0,8	—	0,8	dB
<b>Phase Imbalance</b>			-4,5	—	3,5	degree



Transfer function

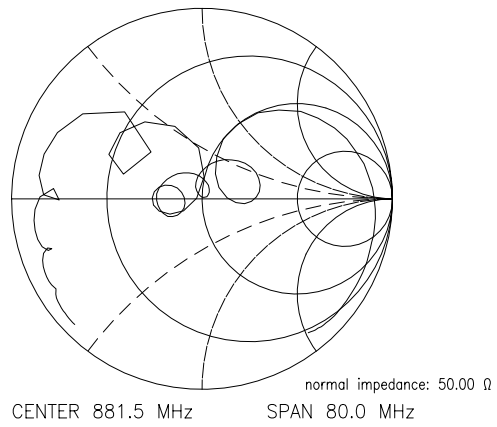
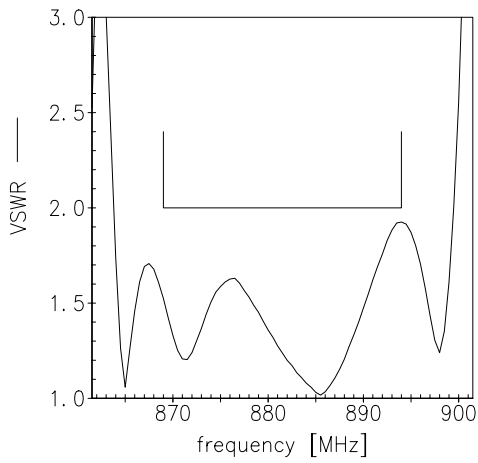


Transfer function (wideband)

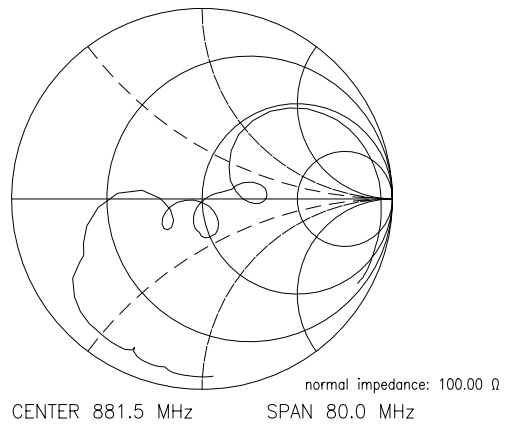
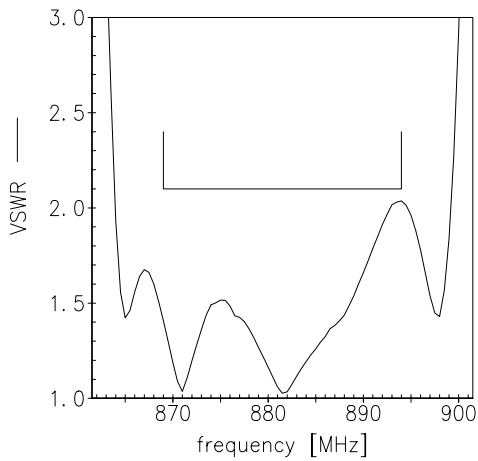




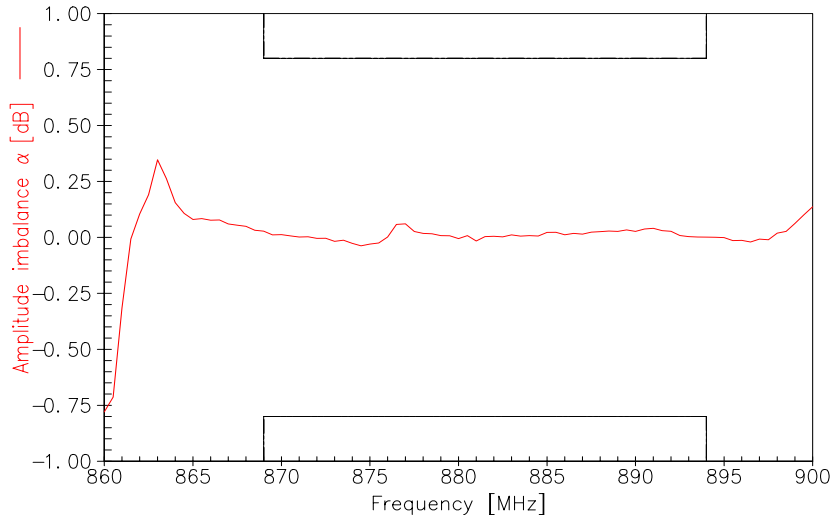
$S_{11}$



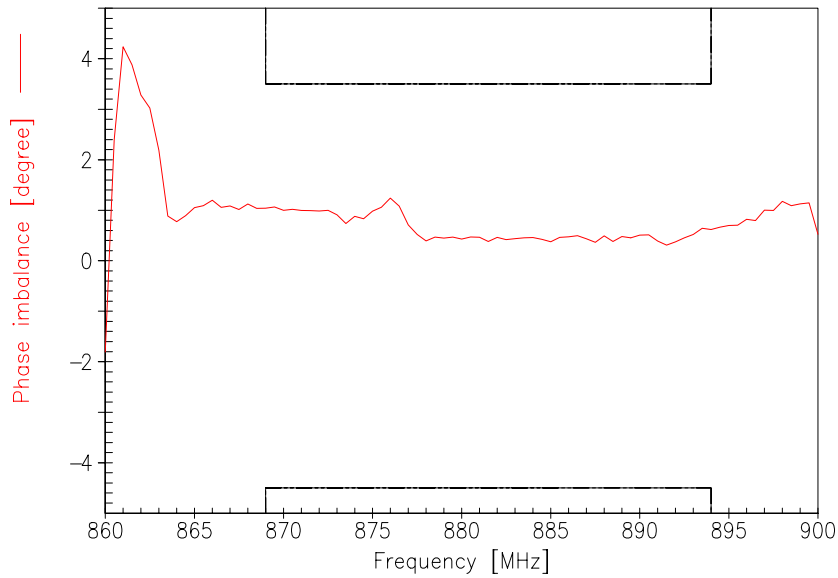
$S_{22}$



**Amplitude imbalance**



**Phase imbalance**





**SAW Components**

**B7731**

**Low-Loss Filter for Mobile Communication**

**881,5 MHz**

Data Sheet



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**P.O. Box 80 17 09, 81617 Munich, GERMANY**

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