



SAW Components

Data Sheet B7731, Pb-Free





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B7731

Low-Loss Filter for Mobile Communication

881,5 MHz

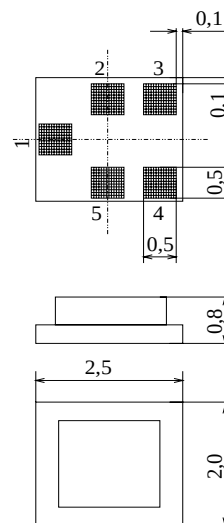
Data Sheet



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 Surface Mounted Technology (SMT)
- Pb-Free

Chip Size SAW package QCS5H



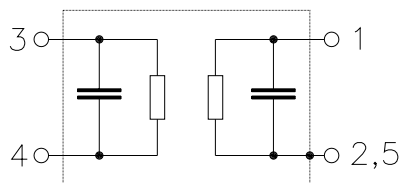
Dimensions in mm, approx. weight 0,015g

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-K910	C61157-A7-A139	F61074-V8189-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 40 / + 85	$^{\circ}\text{C}$	Machine Model, 10 pulses source impedance 50 Ω , CDMA signal
Storage temperature range	T_{stg}	- 40 / + 85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	5	V	
ESD voltage	V_{ESD}^*	100*	V	
Input power max.	P_{IN}	0	dBm	

* - acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses



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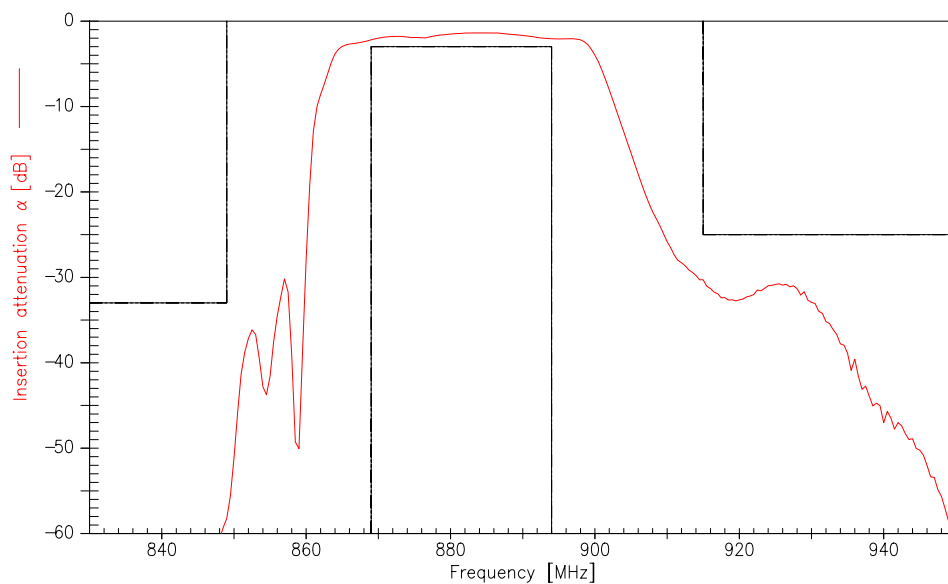


Characteristics

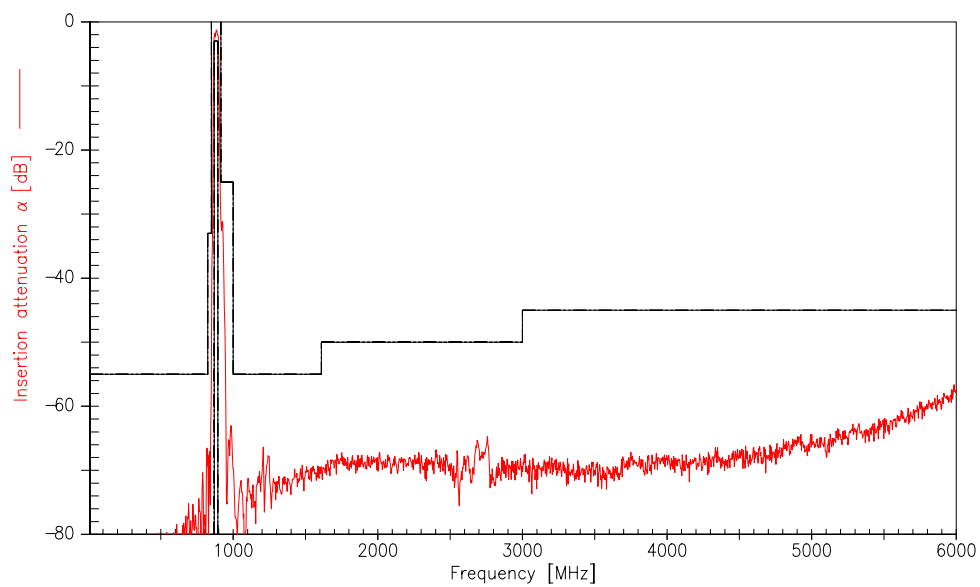
Operating temperature range: $T = -30$ to $+85$ °C
Terminating source impedance: $Z_S = 50 \Omega$
Terminating load impedance: $Z_L = 100 \Omega$

		min.	typ.	max.	
Center frequency	f_C	—	881,5	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$				
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)





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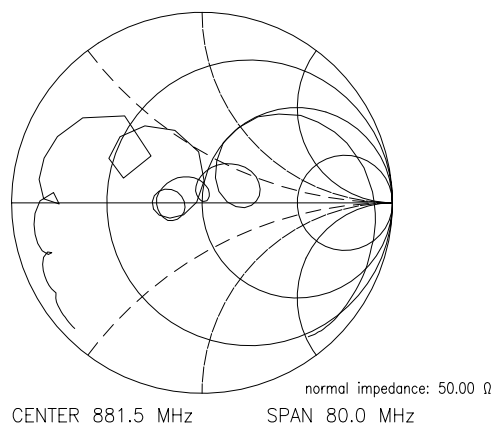
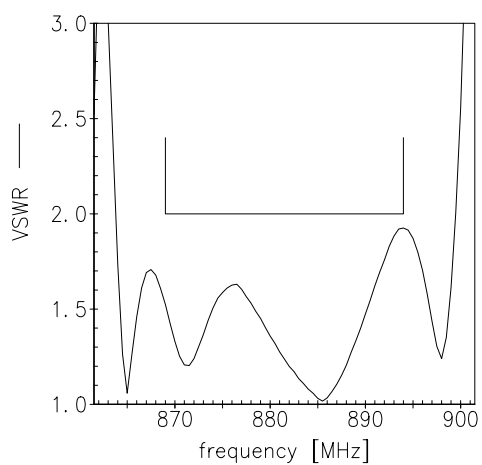
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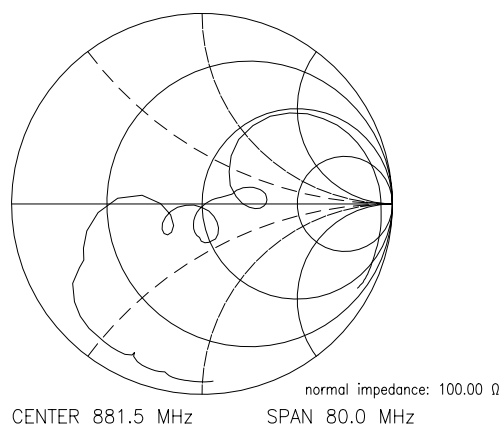
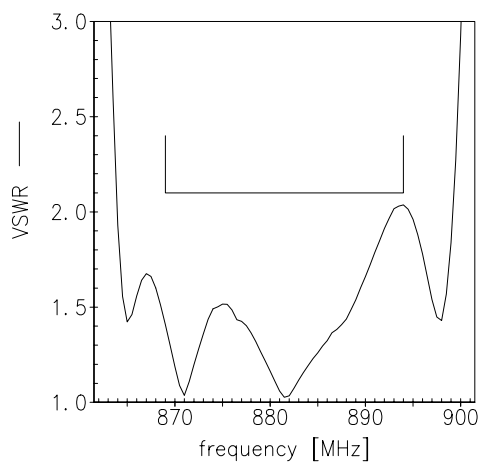
Data Sheet



S_{11}



S_{22}





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