



SAW Components

Data Sheet B7733

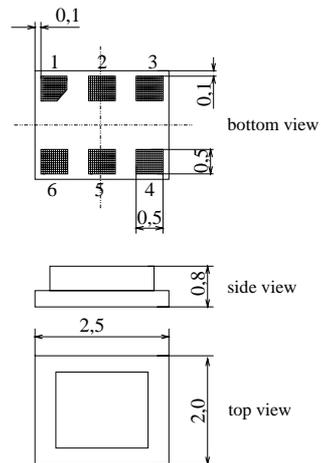




Features

- 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)**

Chip Size SAW package DCS6I



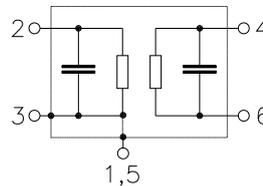
Terminals

- Ni, gold-plated

Dimensions in mm, approx. weight 0,014g

Pin configuration

- 2 Input
- 4 Balanced output
- 6 Balanced output
- 1,3,5 Ground, to be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B7733	B39881-B7733-C610	C61157-A7-A76	F61074-V8153-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 40 / + 85	°C	source impedance 50 Ω CDMA signal
Storage temperature range	T_{stg}	- 40 / + 85	°C	
DC voltage	V_{DC}	5	V	
Input power max.	P_{IN}	0	dBm	



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Low-Loss Filter for Mobile Communication

881,5 MHz

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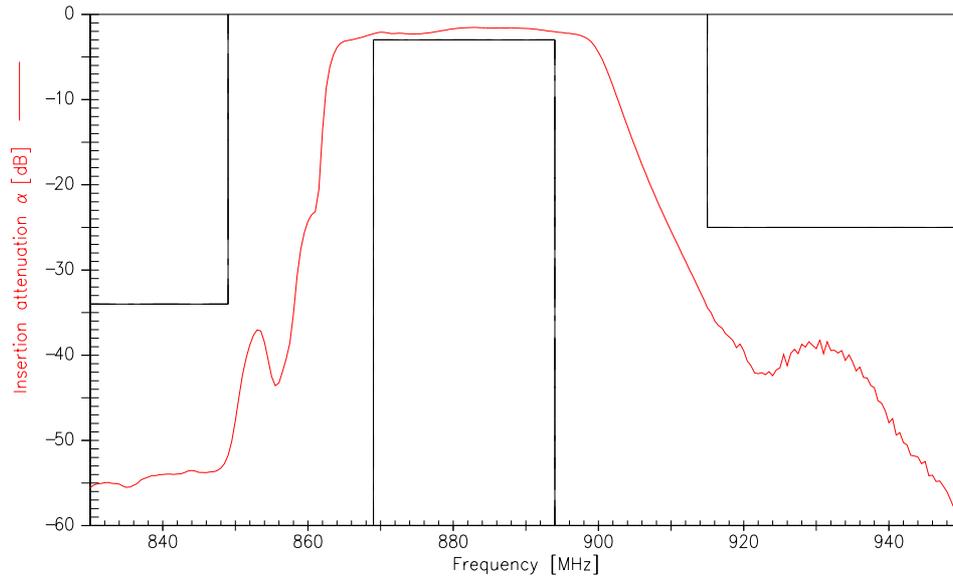
Characteristics

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

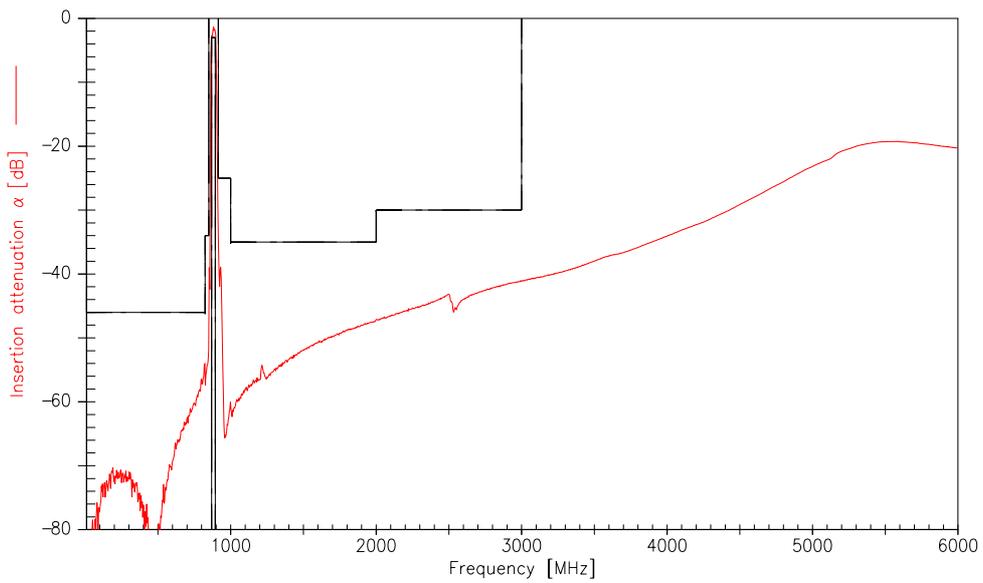
		min.	typ.	max.	
Center frequency	f_C	—	881,5	—	MHz
Maximum insertion attenuation	α_{max}				
869,0 ... 894,0 MHz		—	2,7	3,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
869,0 ... 894,0 MHz		—	1,2	1,5	dB
Input VSWR					
869,0 ... 894,0 MHz		—	2,0	2,1	
Output VSWR					
869,0 ... 894,0 MHz		—	2,0	2,1	
Output amplitude imbalance (S_{31}/S_{21})					
869,0 ... 894,0 MHz		-1,5	—	2,0	dB
Output phase imbalance ($\phi(S_{31})-\phi(S_{21})+180^\circ$)					
869,0 ... 894,0 MHz		-5,0	—	7,0	degree
Attenuation	α				
0,0 ... 824,0 MHz		46,0	53,0	—	dB
824,0 ... 849,0 MHz		34,0	41,0	—	dB
915,0 ... 1000,0 MHz		25,0	30,0	—	dB
1000,0 ... 2000,0 MHz		35,0	47,0	—	dB
2000,0 ... 3000,0 MHz		30,0	40,0	—	dB



Transfer function



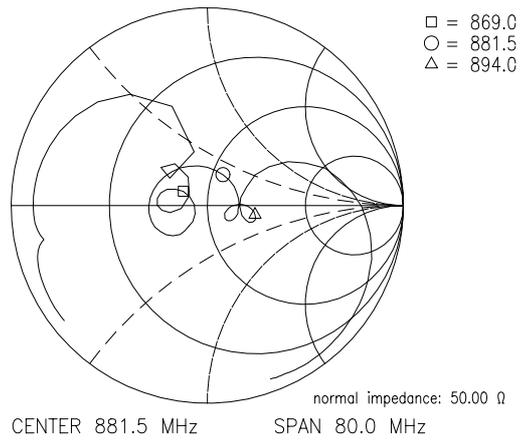
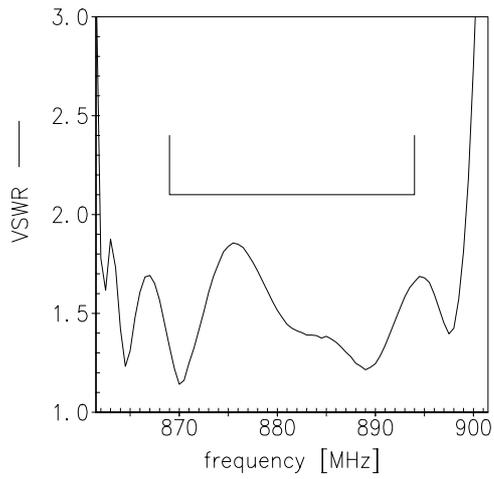
Transfer function (wideband)



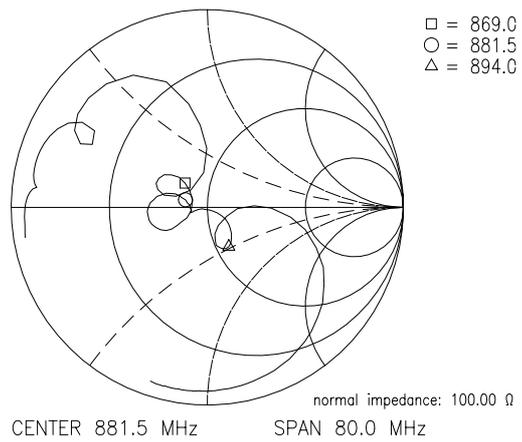
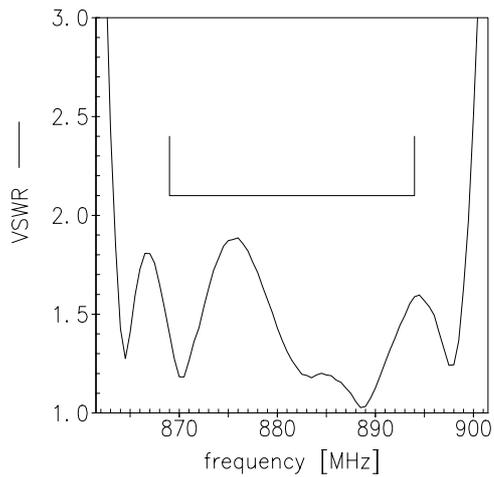


Reflection functions

S_{11}

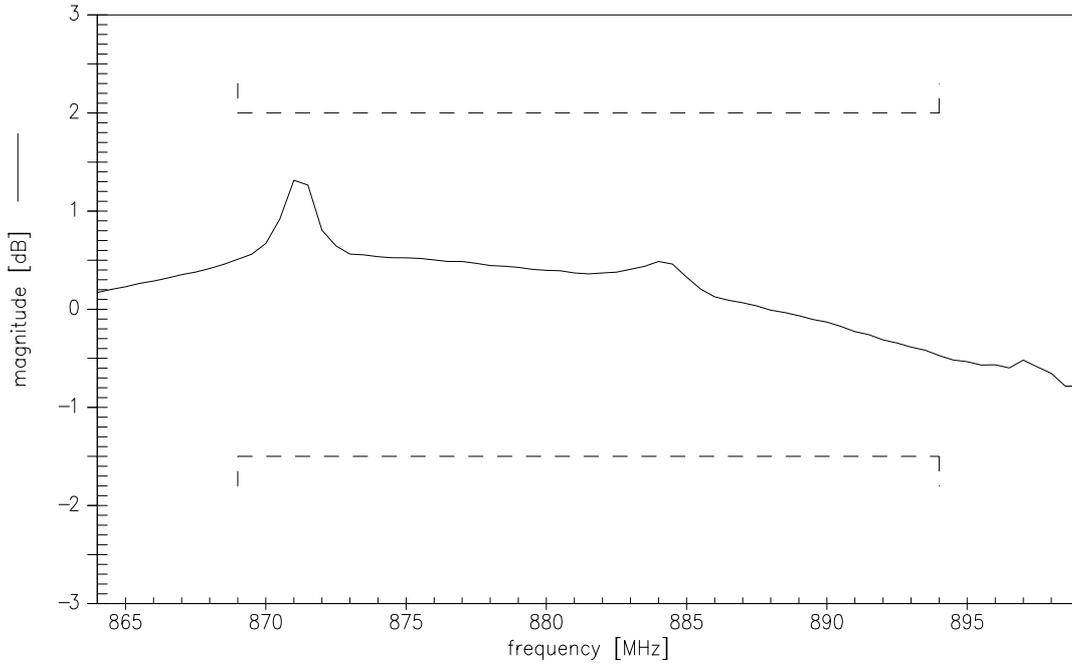


S_{22}

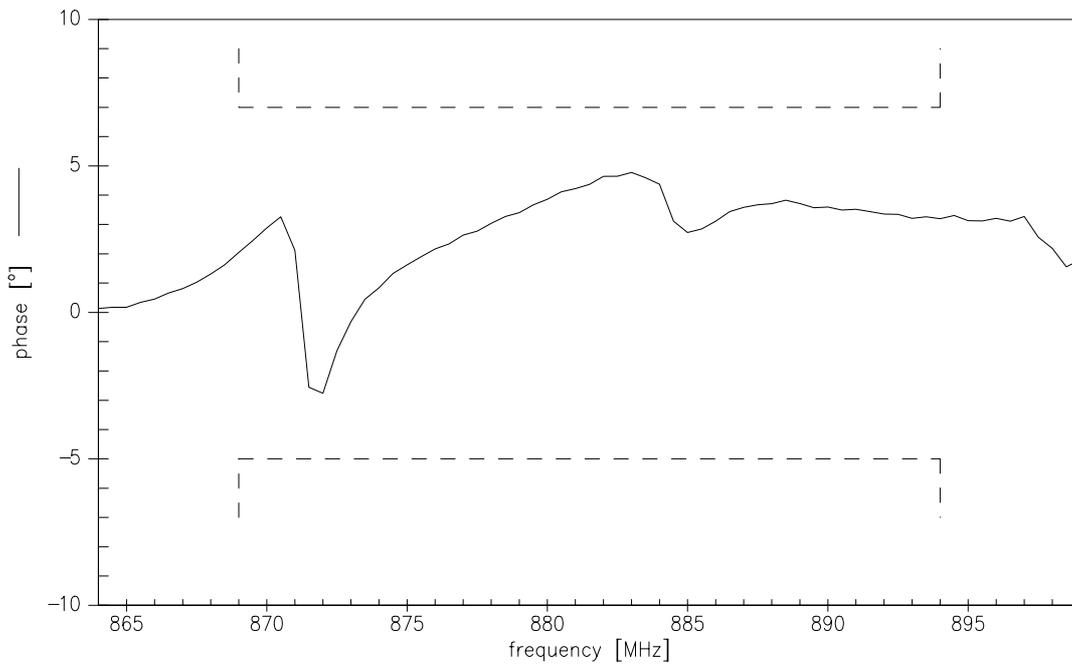




Output amplitude balance ($|S_{31}/S_{21}|$)



Output phase balance ($\phi(S_{31}) - \phi(S_{21}) + 180^\circ$)





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881,5 MHz

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

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