



SAW Components

Data Sheet B7730, Pb-Free

Data Sheet



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B7730

Low-Loss Filter for Mobile Communication

881,5 MHz

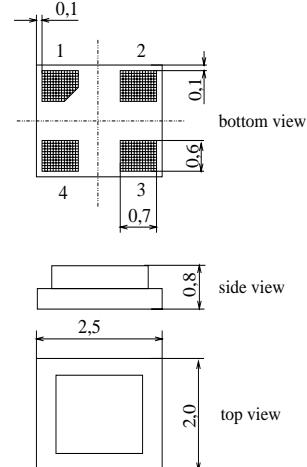
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Chip Sized SAW Package DCS4H

Features

- Low-loss RF filter for mobile telephone
Cell systems, receive path
- High Tx band selectivity
- Low amplitude ripple
- Usable passband 25 MHz
- Suitable for GPRS class 1 to 12
- Package for Surface Mounted
Technology (SMT)
- Pb-Free



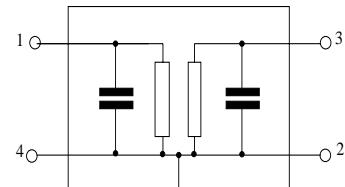
Terminals

- Gold-plated Ni

Dimensions in mm, approx. weight 0,015 g

Pin configuration

1	Input
3	Output
2, 4	Ground



Type	Ordering code	Marking and Package according to	Packing according to
B7730	B39881-B7730-K710	C61157-A7-A136	F61074-V8189-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	-40/+85	°C	
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	5	V	
ESD voltage	V_{ESD}^*	100*	V	Machine Model, 10 pulses
Input power at GSM850, GSM900, GSM1800 and GSM1900	P_{IN}	15	dBm	peak power of GSM signal, duty cycle 4:8
Tx bands				

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

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

			min.	typ.	max.	
Center frequency		f_C	—	881,5	—	MHz
Maximum insertion attenuation		α_{max}	—	2,5	2,7	dB
	869,0 ... 894,0	MHz	—	—	—	
Amplitude ripple (p-p)		$\Delta\alpha$	—	0,9	1,1	dB
	869,0 ... 894,0	MHz	—	—	—	
Return loss			10,0	12,0	—	dB
	869,0 ... 894,0	MHz	—	—	—	
Attenuation		α	45,0	55,0	—	dB
	0,0 ... 824,0	MHz	45,0	50,0	—	dB
	824,0 ... 849,0	MHz	24,0	26,0	—	dB
	914,0 ... 924,0	MHz	35,0	40,0	—	dB
	950,0 ... 997,0	MHz	35,0	50,0	—	dB
	997,0 ... 2200,0	MHz	40,0	50,0	—	dB
	2200,0 ... 3000,0	MHz	35,0	42,0	—	dB
	3000,0 ... 4000,0	MHz	20,0	28,0	—	dB
	4000,0 ... 6000,0	MHz	10,0	18,0	—	dB
Tx band suppression		α	45,0	50,0	—	dB
	824,0 ... 849,0	MHz	—	—	—	



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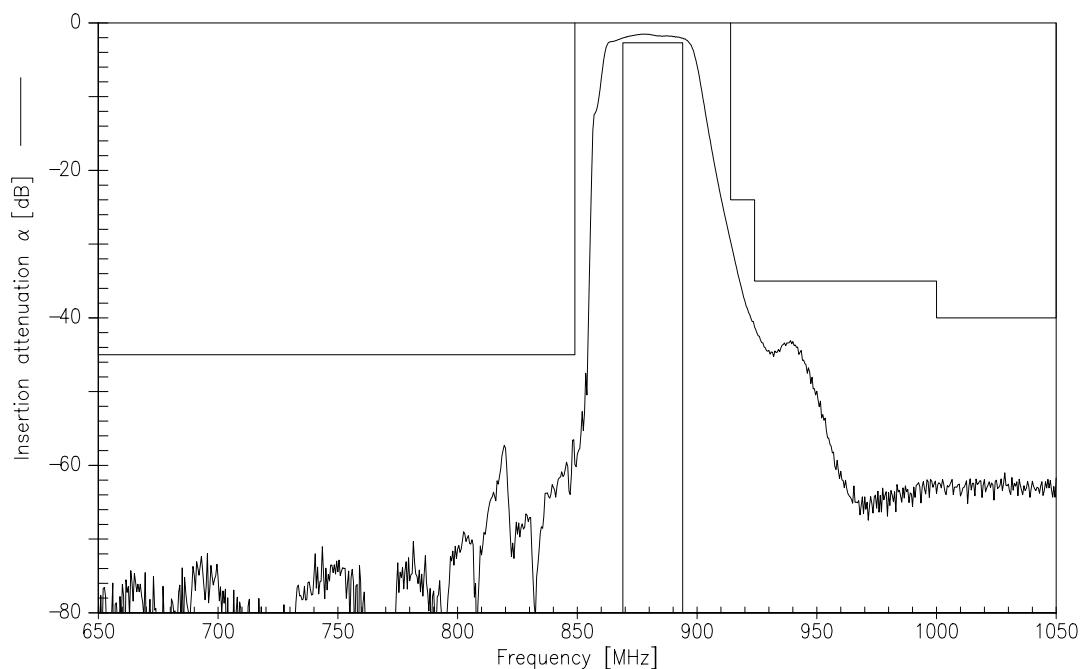
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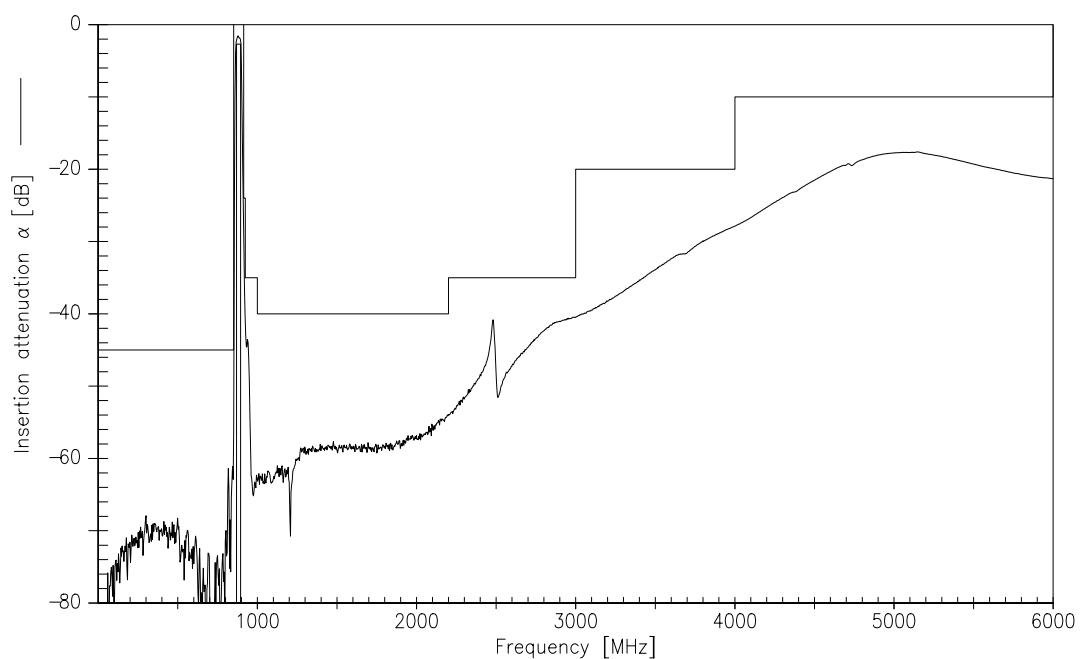
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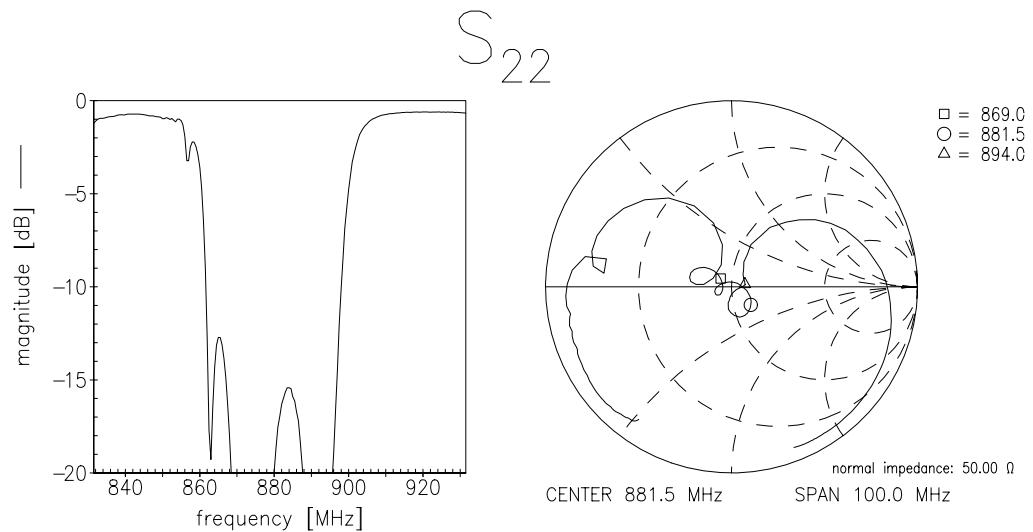
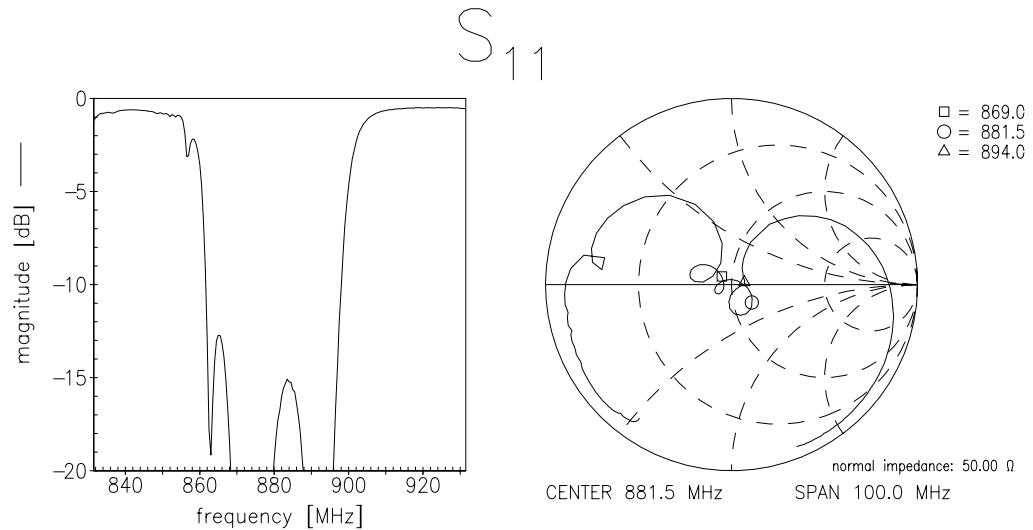


Transfer function (narrowband measurement at 25 °C)



Transfer function (wideband measurement)



Reflection functions




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

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