

SAW Components

Data Sheet B7730, Pb-Free





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B7730

Low-Loss Filter for Mobile Communication

881,5 MHz

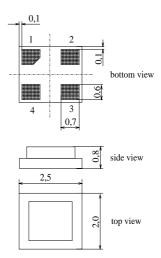
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Chip Sized SAW Package DCS4H

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



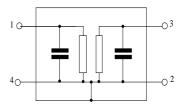
Terminals

■ Gold-plated Ni

Dimensions in mm, approx. weight 0,015 g

Pin configuration

1	Input
3	Output
2, 4	Ground



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

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



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Characteristics

 $T = -30 \text{ to } +85 \,^{\circ}\text{C}$ Operating temperature range:

 $Z_{\rm S} = 50 \ \Omega$ $Z_{\rm L} = 50 \ \Omega$ Terminating source impedance: Terminating load impedance:

			min.	typ.	max.	
Center frequency		$f_{\mathbb{C}}$	_	881,5	_	MHz
Maximum insertion attenuation		α_{max}				
869,0 894	,0 MHz		_	2,5	2,7	dB
Amplitude ripple (p-p)		$\Delta \alpha$				
869,0 894	,0 MHz		_	0,9	1,1	dB
Return loss						
869,0 894	,0 MHz		10,0	12,0	_	dB
Attenuation		α				
0,0 824	,0 MHz		45,0	55,0	_	dB
824,0 849	,0 MHz		45,0	50,0	_	dB
914,0 924	,0 MHz		24,0	26,0	_	dB
924,0 950	,0 MHz		35,0	40,0	_	dB
950,0 997	,0 MHz		35,0	50,0	_	dB
997,02200	,0 MHz		40,0	50,0	_	dB
2200,03000	,0 MHz		35,0	42,0	_	dB
3000,04000	,0 MHz		20,0	28,0	_	dB
4000,06000),0 MHz		10,0	18,0		dB
Tx band suppression		α				
824,0 849	,0 MHz		45,0	50,0	_	dB

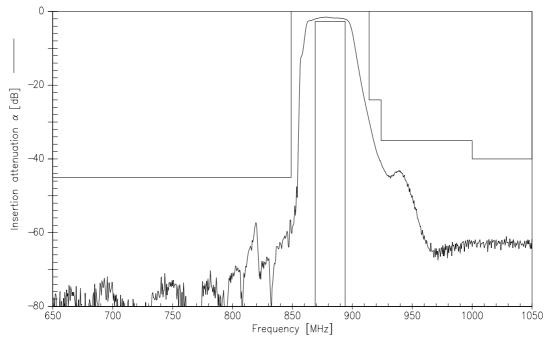


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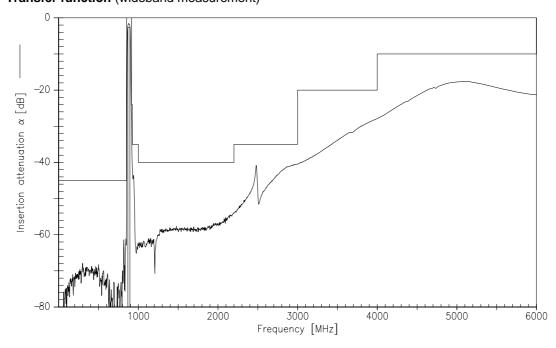
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Transfer function (narrowband measurement at 25 °C)



Transfer function (wideband measurement)





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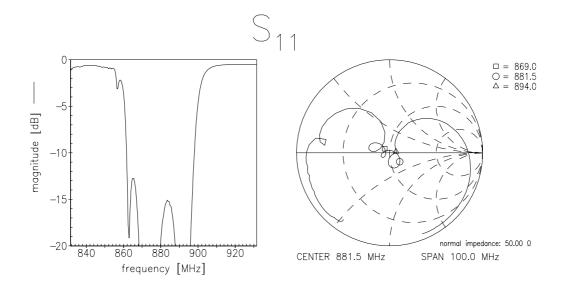
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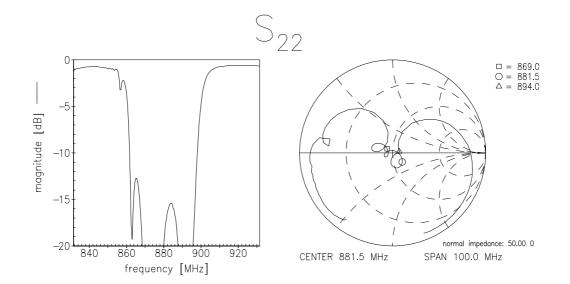
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Reflection functions







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