



SAW Components

Data Sheet B7761





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Low-Loss Filter for Mobile Communication

836,5 MHz

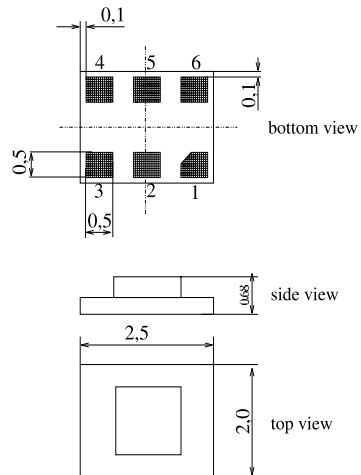
Data Sheet



Features

- Low-loss RF filter for mobile telephone GSM 850 systems, transmit path
- Low amplitude ripple
- Usable passband 25 MHz
- Balanced to unbalanced operation
- Impedance transformation from 100 Ω to 50 Ω
- Suitable for GPRS class 1 to 12
- Ceramic package for **Surface Mounted Technology (SMT)**

Chip sized SAW package DCS6P



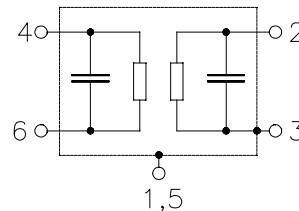
Dimensions in mm, approx. weight 0,010 g

Terminals

- Ni, gold-plated

Pin configuration

- 4 Balanced input
- 6 Balanced input
- 2 Output
- 1,3,5 Ground, to be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B7761	B39841-B7761-E410	C61157-A7-A101	F61074-V8153-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 30 / + 85	°C	
Storage temperature range	T_{stg}	- 40 / + 85	°C	
DC voltage	V_{DC}	5	V	
ESD voltage	V_{ESD}	50	V	
Input power at GSM850, GSM900, GSM1800, GSM1900 Tx bands	P_{IN}	15	dBm	



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Characteristics

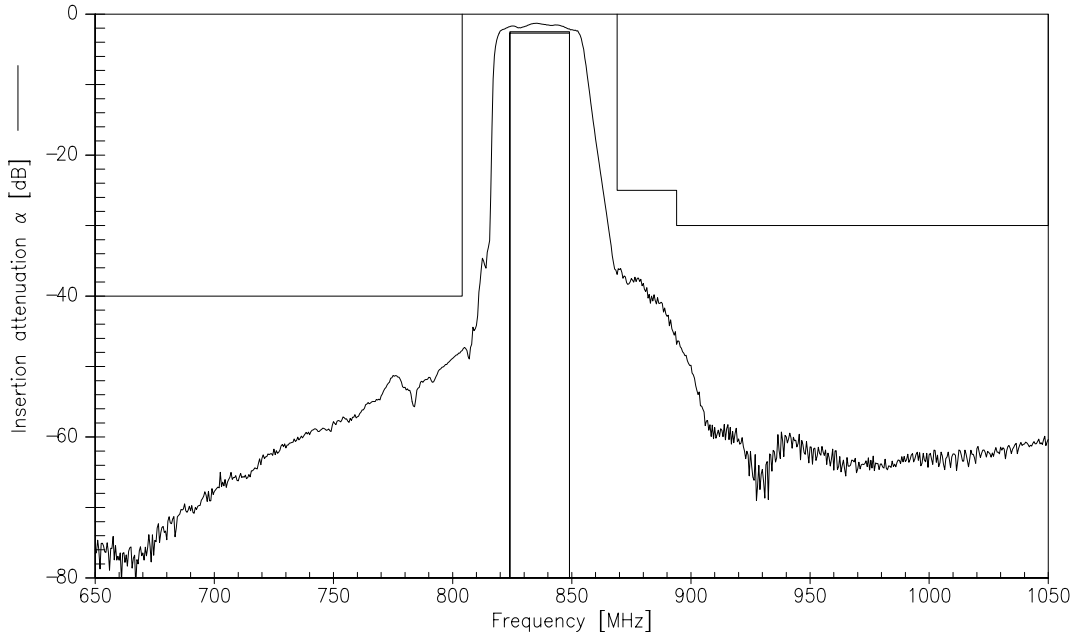
Operating temperature range: $T = -10$ to $+85$ °C
 Terminating source impedance: $Z_S = 100 \Omega$
 Terminating load impedance: $Z_L = 50 \Omega$

		min.	typ.	max.	
Center frequency	f_C	—	836,5	—	MHz
Maximum insertion attenuation	α_{max}				
824,0 ... 849,0 MHz		—	2,3	2,7 ¹⁾	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
824,0 ... 849,0 MHz		—	1,3	1,5	dB
Input VSWR (balanced)					
824,0 ... 849,0 MHz		—	1,9	2,2	
Output VSWR (unbalanced)					
824,0 ... 849,0 MHz		—	1,9	2,1	
Attenuation	α				
0,0 ... 804,0 MHz		40,0	45,0	—	dB
869,0 ... 894,0 MHz		25,0	32,0	—	dB
894,0 ... 1990,0 MHz		30,0	42,0	—	dB
1990,0 ... 3400,0 MHz		25,0	35,0	—	dB
3400,0 ... 6000,0 MHz		20,0	27,0	—	dB
Amplitude Imbalance		- 1,5		1,0	dB
Phase Imbalance		-10,0		10,0	deg

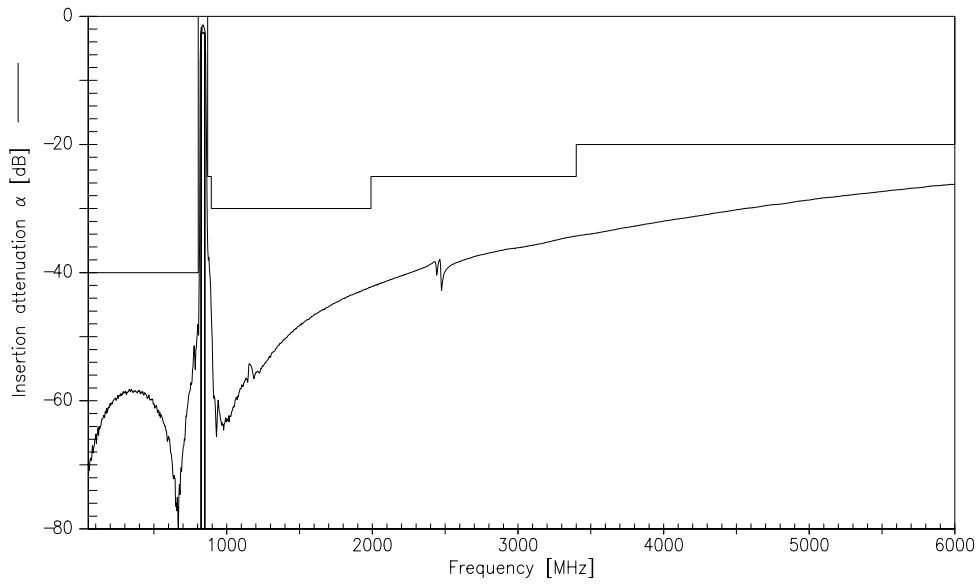
1) Maximum I.A from -30 to -10 °C is 3.0 dB



Transfer function



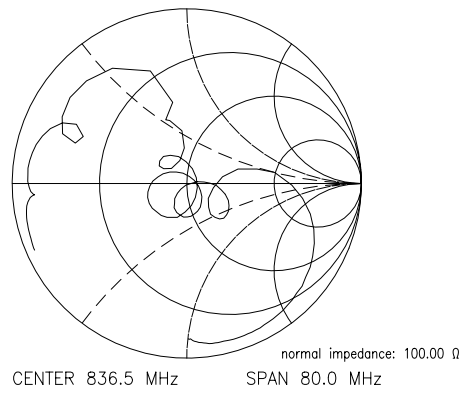
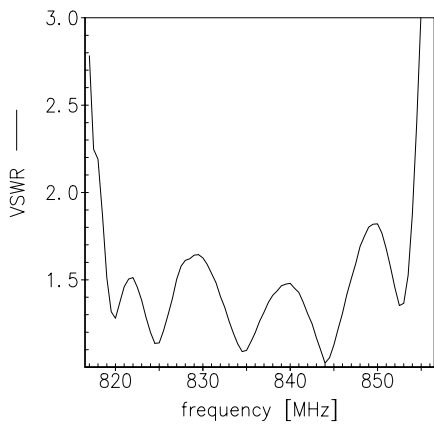
Transfer function (wide band)



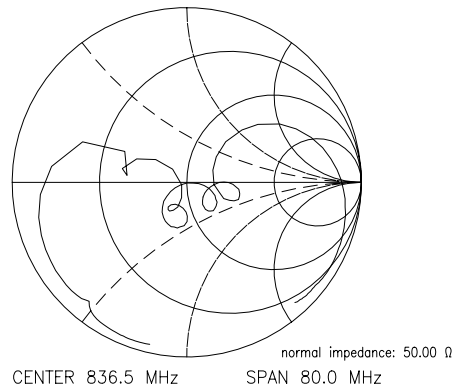
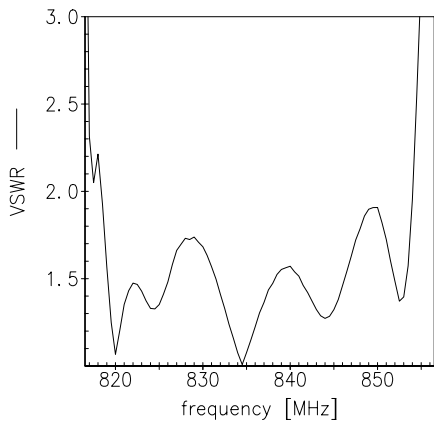


Reflection functions

S_{11}



S_{22}





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