



SAW Components

Data Sheet B7761

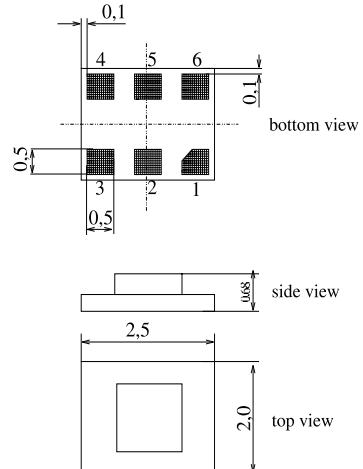
Data Sheet



SAW Components
B7761
Low-Loss Filter for Mobile Communication
836,5 MHz
Data Sheet

Features

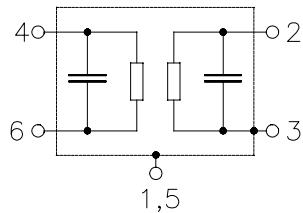
- Low-loss RF filter for mobile telephone
GSM 850 systems, transmit path
- Low amplitude ripple
- Usable passband 25 MHz
- Balanced to unbalanced operation
- Impedance transformation from 100 Ω
to 50 Ω
- Suitable for GPRS class 1 to 12
- Ceramic package for **Surface Mounted
Technology (SMT)**

Chip sized SAW package DCS6P


Dimensions in mm, approx. weight 0,010 g

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

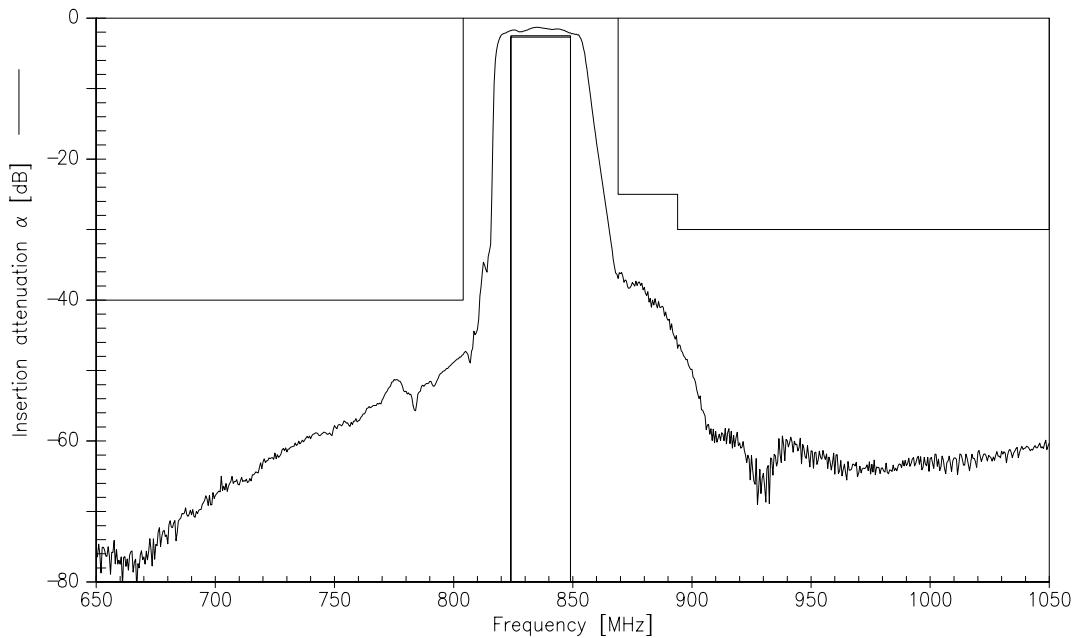
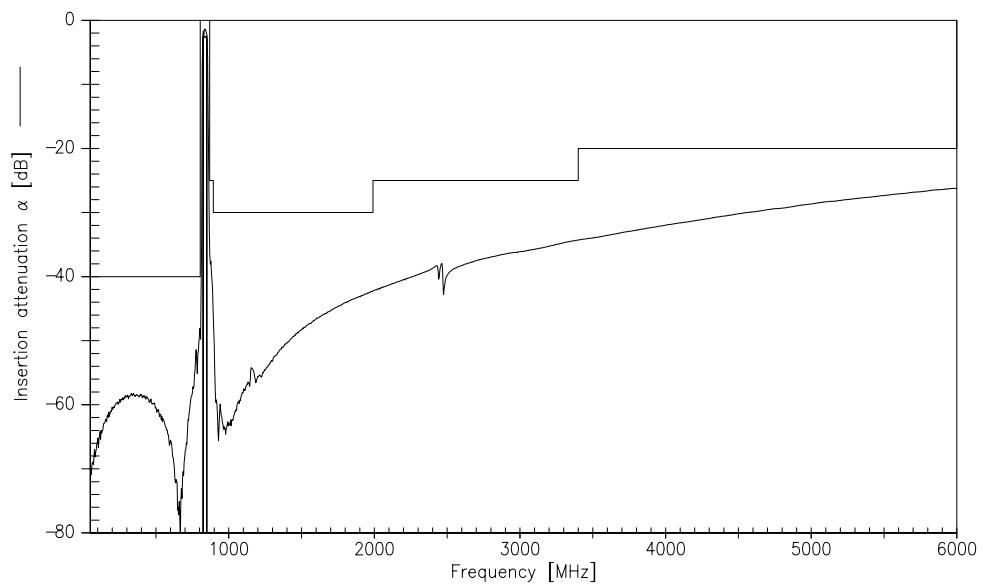
Electrostatic Sensitive Device (ESD)
Maximum ratings

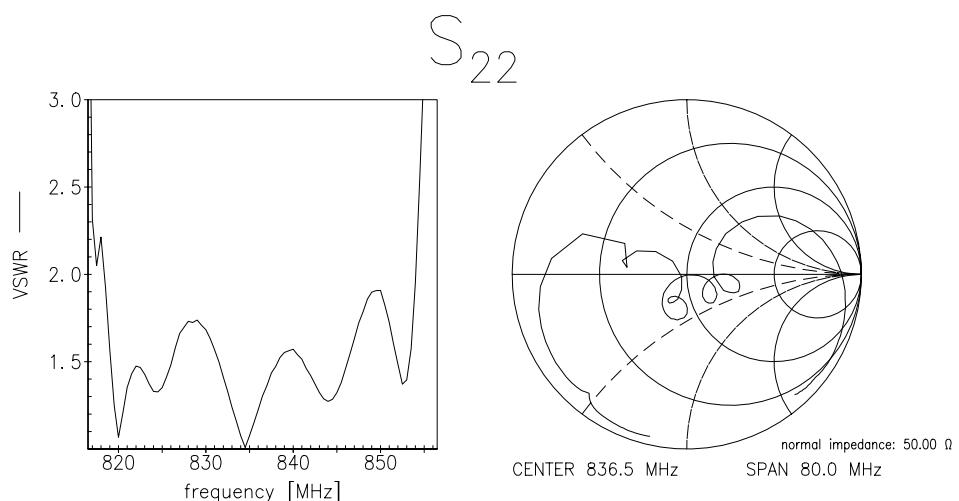
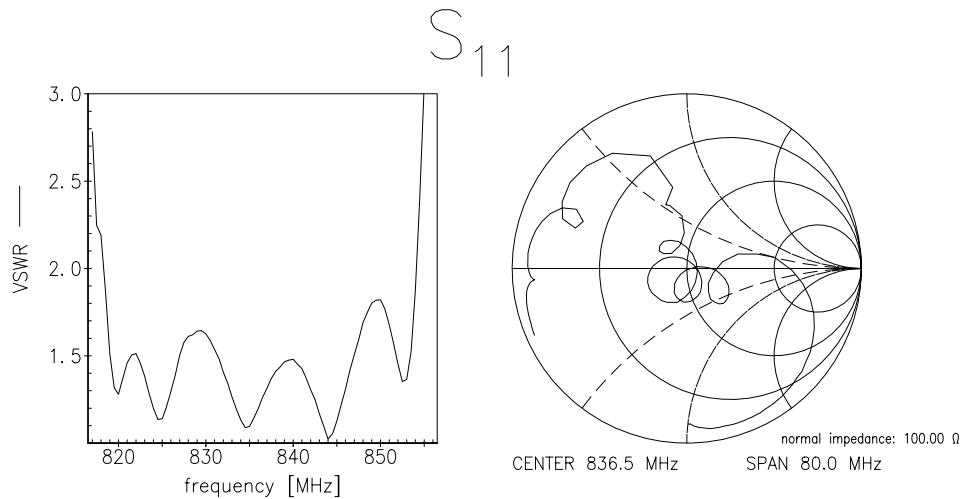
Operable temperature range	T	-30 / +85	°C	
Storage temperature range	T_{stg}	-40 / +85	°C	
DC voltage	V_{DC}	5	V	
ESD voltage	V_{ESD}	50	V	
Input power at GSM850, GSM900, GSM1800, GSM1900 Tx bands	P_{IN}	15	dBm	peak power of GSM signal, duty cycle 4:8

**SAW Components****B7761****Low-Loss Filter for Mobile Communication****836,5 MHz****Data Sheet****Characteristics**Operating temperature range: $T = -10$ to $+85$ °CTerminating 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}	—	2,3	2,7 ¹⁾	dB
	824,0 ... 849,0	MHz	—	1,3	1,5	dB
Amplitude ripple (p-p)		$\Delta\alpha$	—	1,9	2,2	
	824,0 ... 849,0	MHz	—	1,9	2,1	
Input VSWR (balanced)			—	—	—	
	824,0 ... 849,0	MHz	—	—	—	
Output VSWR (unbalanced)			—	—	—	
	824,0 ... 849,0	MHz	—	—	—	
Attenuation		α	40,0	45,0	—	dB
	0,0 ... 804,0	MHz	25,0	32,0	—	dB
	869,0 ... 894,0	MHz	30,0	42,0	—	dB
	894,0 ... 1990,0	MHz	25,0	35,0	—	dB
	1990,0 ... 3400,0	MHz	20,0	27,0	—	dB
	3400,0 ... 6000,0	MHz				
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)






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836,5 MHz

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