



SAW Components

Data Sheet B9025





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Low-Loss Filter for Mobile Communication

881,5 MHz

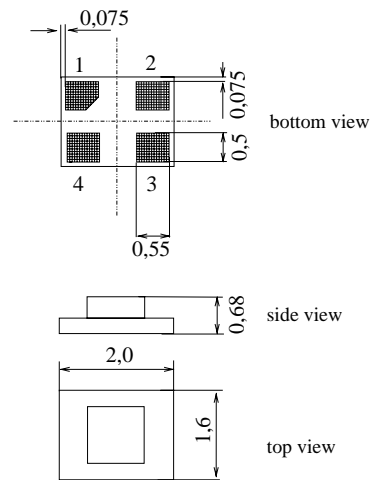
Data Sheet



Features

- Low-loss RF filter for mobile telephone GSM850 systems, receive path
- Usable passband 25 MHz
- Unbalanced operation
- Impedance 50 Ω input and output
- Suitable for GPRS Class 1 to 12
- Ceramic Package for **Surface Mounted Technology (SMT)**

Chip sized SAW package DCS4F



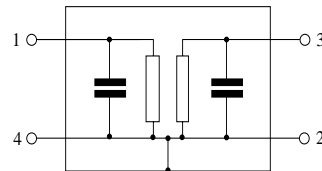
Terminals

- Ni, gold-plated

Dimensions in mm, approx. weight 0,007 g

Pin configuration

- 1 Input
- 3 Output
- 2,4 Ground



Type	Ordering code	Marking and Package according to	Packing according to
B9025	B39881-B9025-E610	C61157-A7-A113	F61074-V8152-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 30/+ 85	°C	Machine Model, 10 pulses
Storage temperature range	T_{stg}	- 40/+ 85	°C	
DC voltage	V_{DC}	5	V	
ESD voltage	V_{ESD}	100*	V	
Input power max at GSM850, GSM900 GSM1800, GSM1900 Tx bands	P_S	15	dBm	peak power of GSM signal, duty cycle 4:8

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



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Characteristics

Operating temperature: $T = +25\text{ °C}$
 Terminating 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}	869,0 ... 894,0 MHz	—	1,6	1,8	dB
Amplitude ripple (p-p)	$\Delta\alpha$	869,0 ... 894,0 MHz	—	0,5	0,7	dB
Input VSWR		869,0 ... 894,0 MHz	—	1,7	2,0	
Output VSWR		869,0 ... 894,0 MHz	—	1,8	2,1	
Attenuation	α					
		0,0 ... 600,0 MHz	40	43	—	dB
		600,0 ... 800,0 MHz	30	37	—	dB
		800,0 ... 824,0 MHz	27	31	—	dB
		824,0 ... 849,0 MHz	26	29	—	dB
		914,0 ... 1500,0 MHz	23	26	—	dB
		1500,0 ... 4500,0 MHz	35	44	—	dB
		4500,0 ... 6000,0 MHz	28	34	—	dB



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Characteristics

Operating temperature: $T = -20 \dots +75 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$
 Terminating load impedance: $Z_L = 50 \text{ } \Omega$

			min.	typ.	max.	
Center frequency	f_C		—	881,5	—	MHz
Maximum insertion attenuation	α_{\max}	869,0 ... 894,0 MHz	—	1,6	2,0 ¹⁾	dB
Amplitude ripple (p-p)	$\Delta\alpha$	869,0 ... 894,0 MHz	—	0,5	0,9	dB
Input VSWR		869,0 ... 894,0 MHz	—	1,7	2,0	
Output VSWR		869,0 ... 894,0 MHz	—	1,8	2,1	
Attenuation	α					
		0,0 ... 600,0 MHz	40	43	—	dB
		600,0 ... 800,0 MHz	30	37	—	dB
		800,0 ... 824,0 MHz	27	31	—	dB
		824,0 ... 849,0 MHz	26	29	—	dB
		914,0 ... 1500,0 MHz	23	26	—	dB
		1500,0 ... 4500,0 MHz	35	44	—	dB
		4500,0 ... 6000,0 MHz	28	34	—	dB

1) Maximum insertion attenuation from -30 to +85 °C is 2.1 dB



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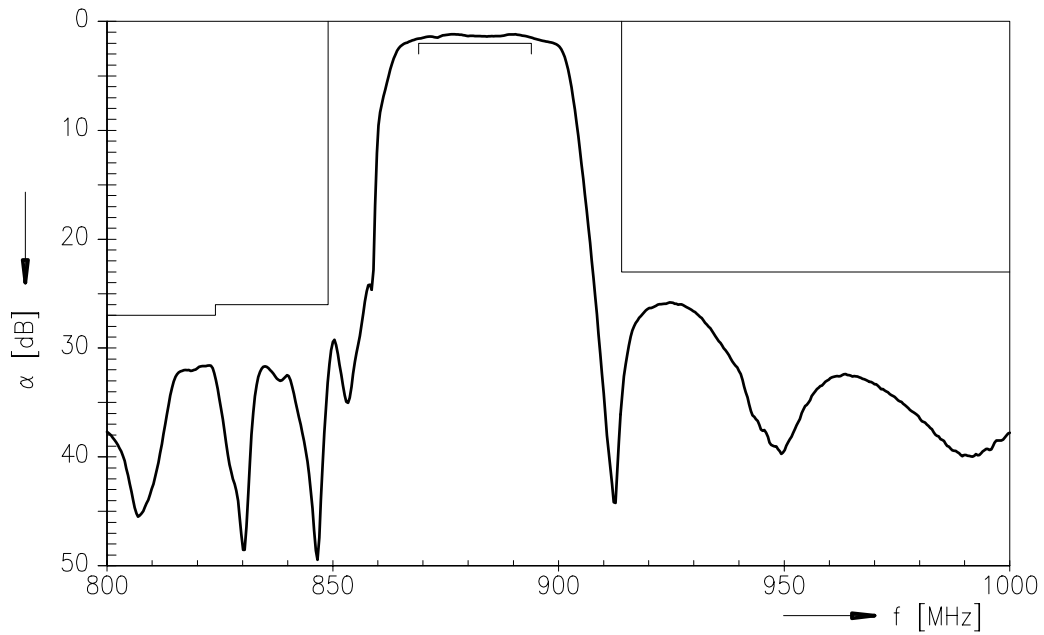
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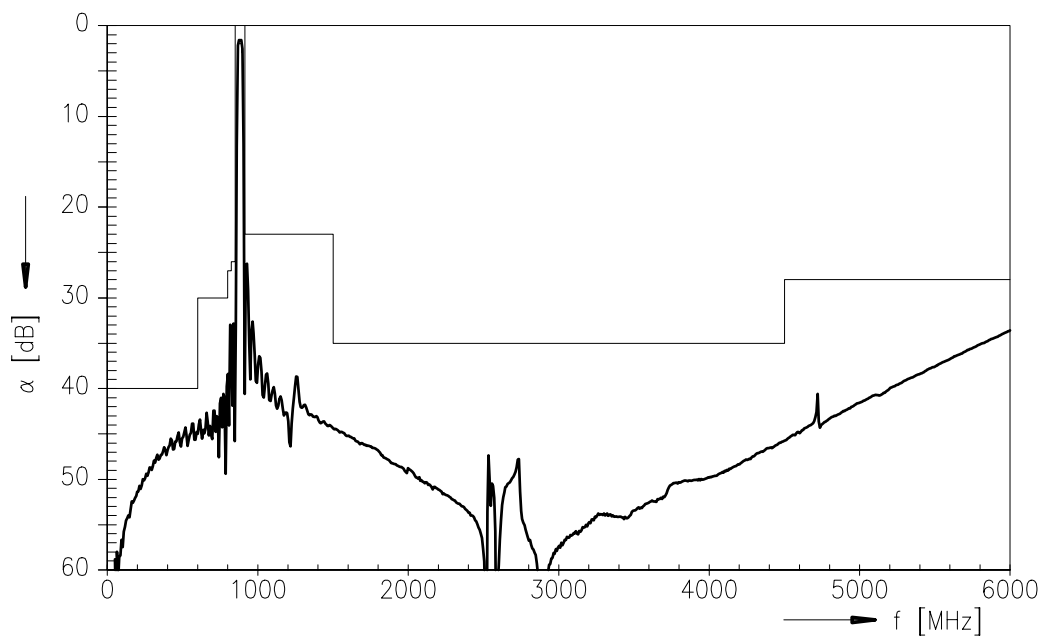
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Transfer function (narrowband; 50 Ω to 50 Ω operation)



Transfer function (wideband; 50 Ω to 50 Ω operation)





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