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SAW Components

Data Sheet B9025

Data Sheet





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B9025

Low-Loss Filter for Mobile Communication

881,5 MHz

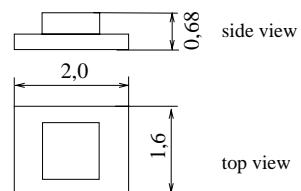
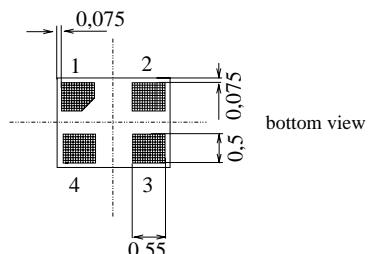
Data Sheet



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



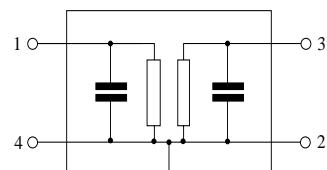
Terminals

- 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	
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 max at GSM850, GSM900 GSM1800, GSM1900	P_S	15	dBm	peak power of GSM signal, duty cycle 4:8
Tx bands				

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

**SAW Components****B9025****Low-Loss Filter for Mobile Communication****881,5 MHz****Data Sheet****Characteristics**Operating temperature: $T = +25^\circ\text{C}$ 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}	—	1,6	1,8	dB
	869,0 ... 894,0	MHz				
Amplitude ripple (p-p)		$\Delta\alpha$	—	0,5	0,7	dB
	869,0 ... 894,0	MHz				
Input VSWR			—	1,7	2,0	
	869,0 ... 894,0	MHz				
Output VSWR			—	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

**SAW Components****B9025****Low-Loss Filter for Mobile Communication****881,5 MHz****Data Sheet****Characteristics**Operating temperature: $T = -20 \dots +75^\circ\text{C}$ Terminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 50 \Omega$

	f_C	min.	typ.	max.	
Center frequency	f_C	—	881,5	—	MHz
Maximum insertion attenuation	α_{\max}	—	1,6	2,0 ¹⁾	dB
	869,0 ... 894,0 MHz				
Amplitude ripple (p-p)	$\Delta\alpha$	—	0,5	0,9	dB
	869,0 ... 894,0 MHz				
Input VSWR		—	1,7	2,0	
	869,0 ... 894,0 MHz				
Output VSWR		—	1,8	2,1	
Attenuation	α	40	43	—	dB
	0,0 ... 600,0 MHz				
	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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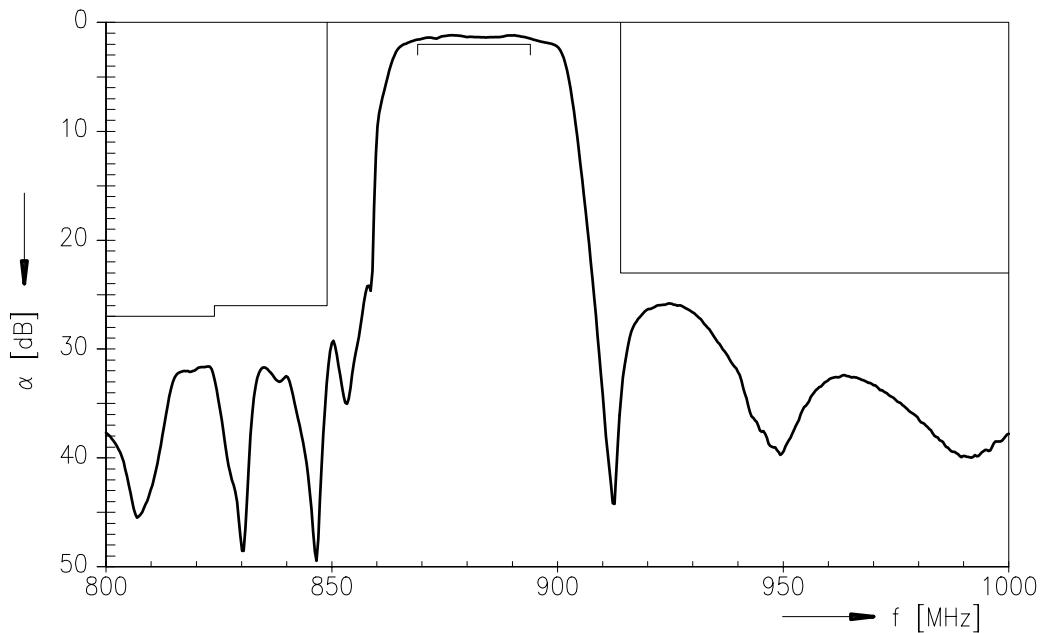
Low-Loss Filter for Mobile Communication

881,5 MHz

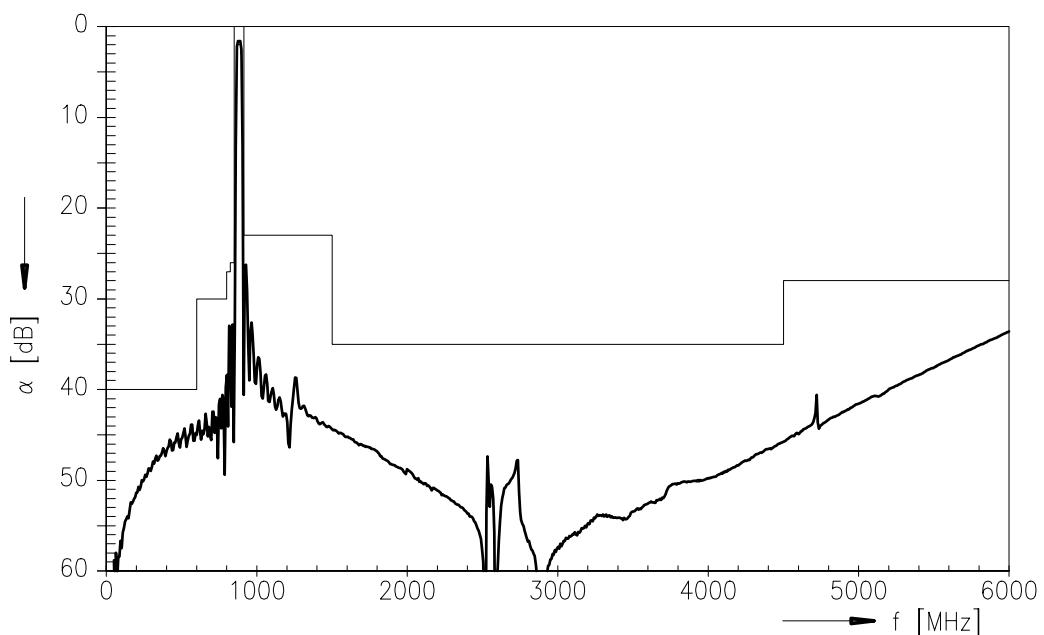
Data Sheet



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



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





SAW Components	B9025
Low-Loss Filter for Mobile Communication	881,5 MHz
Data Sheet	The logo for Surface Mount Device (SMD), consisting of the letters "SMD" in a stylized, blocky font.

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