

Data Sheet B9025





B9025

Low-Loss Filter for Mobile Communication

881,5 MHz

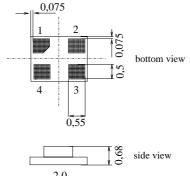
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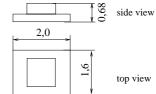


Features

- 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





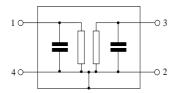
Terminals

■ Ni, gold-plated

Dimensions in mm, approx. weight 0,007 g

Pin configuration

1 Input 3 Output 2,4 Ground



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

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Τ	- 30/+ 85	°C	
Storage temperature range	T_{stg}	– 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	5	V	
ESD voltage	V_{ESD}	100*	V	Machine Model, 10 pulses
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

T = +25 °C Z_S = 50 Ω Z_L = 50 Ω Operating temperature: Terminating source impedance: Terminating load impedance:

					min.	typ.	max.	
Center frequency				$f_{\mathbb{C}}$		881,5	_	MHz
Maximum insertion attenuation			α_{max}					
8	869,0	894,0	MHz		_	1,6	1,8	dB
Amplitude ripple (p-p)				Δα				
8	869,0	894,0	MHz		_	0,5	0,7	dB
Input VSWR								
8	869,0	894,0	MHz			1,7	2,0	
Output VSWR								
8	869,0	894,0	MHz		_	1,8	2,1	
Attenuation				α				
	0,0	600,0	MHz		40	43	_	dB
6	0,00	800,0	MHz		30	37	_	dB
8	300,0	824,0	MHz		27	31	_	dB
8	324,0	849,0	MHz		26	29	_	dB
9	14,0	1500,0	MHz		23	26	_	dB
15	0,00	4500,0	MHz		35	44	_	dB
45	0,00	6000,0	MHz		28	34	_	dB



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Characteristics

Operating temperature: $T = -20 \dots +75 \,^{\circ}\text{C}$

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

				min.	typ.	max.	
Center frequency			$f_{\mathbb{C}}$	_	881,5	_	MHz
Maximum insertion attenuation 869,0 894,0 MHz			α_{max}		1,6	2,01)	dB
000,0	054,0	1411 12			1,0	2,0 /	GB
Amplitude ripple (p-p)	0040		$\Delta \alpha$		0.5		ID.
869,0	894,0	MHz		_	0,5	0,9	dB
Input VSWR							
869,0	894,0	MHz		_	1,7	2,0	
Output VSWR							
	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

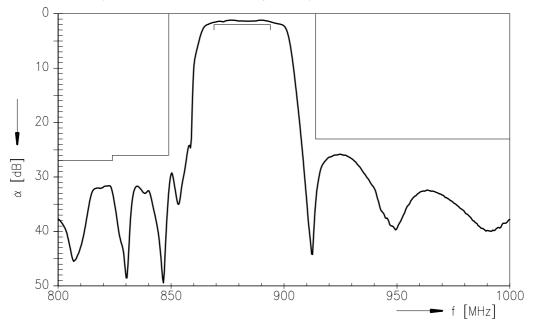


SAW Components B9025
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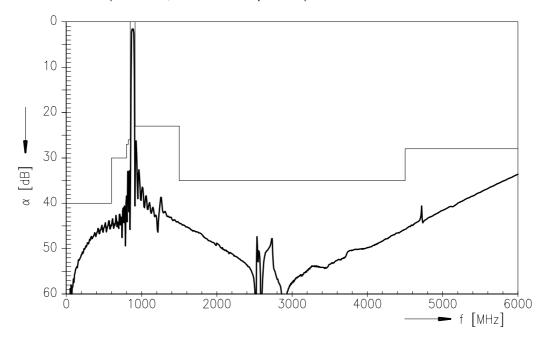
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Transfer function (narrowband; 50 Ω to 50 Ω operation)



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





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