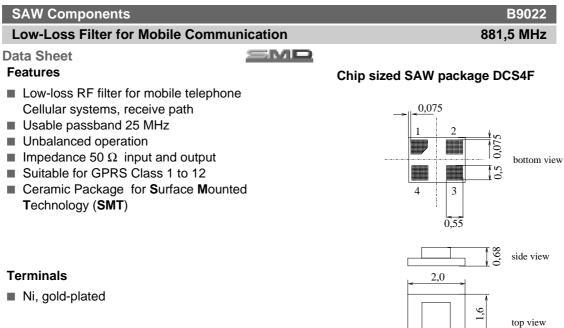


# SAW Components

Data Sheet B9022





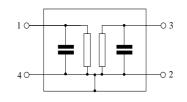


#### Dimensions in mm, approx. weight 0,007 g

#### **Pin configuration**

1	Input, unbalanced
3	Output, unbalanced

2,4 Case ground



Туре	Ordering code	Marking and Package	Packing	
		according to	according to	
B9022	B39881-B9022-E610	C61157-A7-A113	F61074-V8152-Z000	

Electrostatic Sensitive Device (ESD)

## **Maximum ratings**

Operable temperature range	Т	- 30 / + 85	°C	
Storage temperature range	$T_{stg}$	– 40 / + 85	°C	
DC voltage	V <sub>DC</sub>	5	V	
ESD voltage	$V_{\rm ESD}^{*}$	100*	V	machine model, 10 pulses
Input power at	$P_{\rm IN}^{\rm IN}$	15	dBm	peak power of GSM signal,
GSM850, GSM900				duty cycle 4:8
GSM1800 and GSM1900				
Tx bands				

2

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



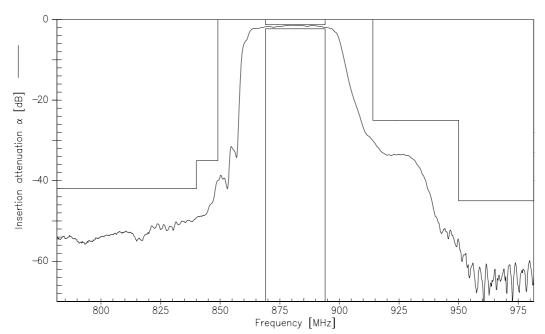
SAW Components					B9022
Low-Loss Filter for Mobile Commu	inication			881	,5 MHz
Data Sheet					
Characteristics					
Operating temperature: Terminating source impedance: Terminating load impedance:	T = +25 $Z_{\rm S} = 50$ $G$ $Z_{\rm L} = 50$ $G$	2			
		min.	typ.	max.	
Center frequency	f <sub>C</sub>	_	881,5	_	MHz
Maximum insertion attenuation 869,0 894,0	α <sub>max</sub> ) MHz	_	1,9	2,0	dB
Amplitude ripple (p-p) 869,0 894,0	Δα MHz	_	0,6	0,7	dB
Input VSWR 869,0 894,0	) MHz	_	1,7	2,0	
Output VSWR 869,0 894,0	) MHz	_	1,7	2,0	
Attenuation	α				
0,0 780,0	) MHz	50	54	_	dB
780,0 840,0	) MHz	42	50		dB
840,0 849,0		39	39	—	dB
914,0 950,0		28	30		dB
950,01500,0		45	52		dB
1500,02200,0		40	45	—	dB
2200,03000,0		33	38		dB
3000,04000,0		28	32	-	dB
4000,06000,0	) MHz	15	21	-	dB



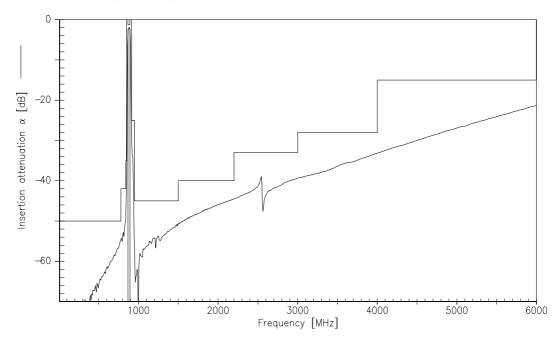
SAW Components					B9022
Low-Loss Filter for Mobile Commun	nication			881	,5 MHz
Data Sheet		<u>b</u>			
Characteristics					
Operating temperature: Terminating source impedance: Terminating load impedance:	T = -30 $Z_{\rm S} = 50$ $Z_{\rm L} = 50$				
		min.	typ.	max.	
Center frequency	f <sub>C</sub>		881,5	_	MHz
Maximum insertion attenuation 869,0 894,0	α <sub>ma</sub> , MHz		2,0	2,3	dB
<b>Amplitude ripple</b> (p-p) 869,0 894,0	$\Delta \alpha$ MHz	_	0,7	1,0	dB
Input VSWR 869,0 894,0	MHz	_	1,7	2,0	
Output VSWR 869,0 894,0	MHz	_	1,7	2,0	
Attenuation	α				
0,0 780,0	MHz	50	54	_	dB
780,0 840,0	MHz	42	50	-	dB
840,0 849,0	MHz	35	39	-	dB
914,0 950,0	MHz MHz	25 45	28 52		dB dB
950,01500,0 1500,02200,0	MHZ MHZ	45	52 45		dВ
2200,0	MHZ	33	38		dB
3000,04000,0	MHz	28	32	_	dB
4000,06000,0	MHz	15	21	_	dB



## Transfer function (narrow band)



Transfer function (wideband)



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Feb 23, 2004



SAW Components		B9022
Low-Loss Filter for Mo	bile Communication	881,5 MHz
Data Sheet	SMD	

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