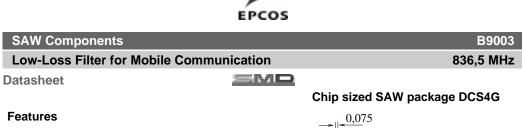


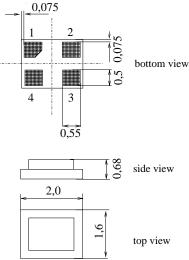
SAW Components

Datasheet B9003





- Low-loss RF filter for Cell mobile telephone system, transmit path
- High counterband suppression
- Usable passband 25 MHz
- Unbalanced/unbalanced operation
- Package size: 1.6 mm x 2.0 mm (4 pin, diagonal pinning)



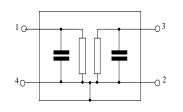
Dimensions in mm, approx weight 0,007g

Pin configuration

Terminals

Ni, gold-plated

1	Input
3	Output
2,4	Ground



Туре	Ordering code	Marking and Package according to	Packing according to
B9003	B39841-B9003-E910	C61157-A7-A105	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 _{DC}	3	V	
ESD voltage	V _{ESD} *	100*	V	machine model, 10 pulses
Source Power max.				
824 - 849 MHz	$P_{\rm IN}$	16	dBm	source impedance 50 Ω
elsewhere	P _{IN}	10	dBm	source impedance 50 Ω

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

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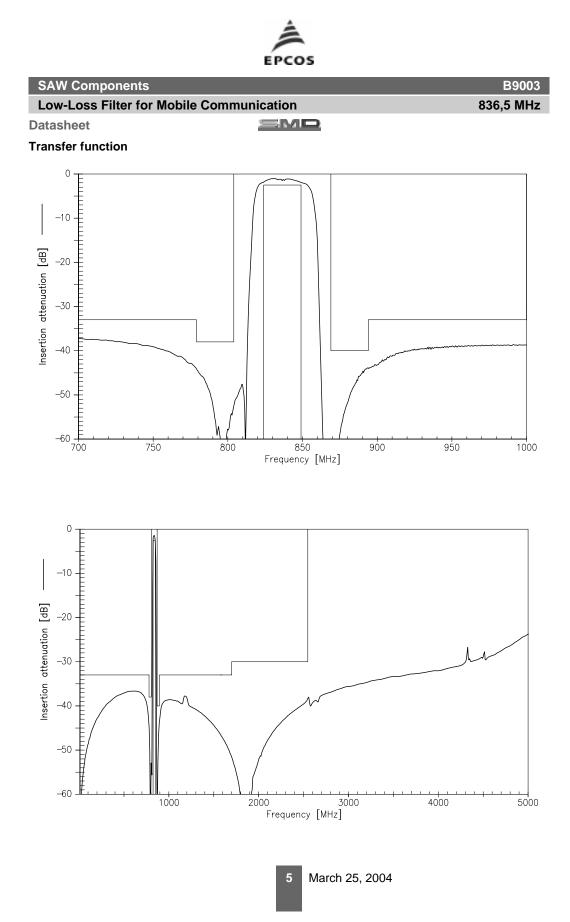
Low-Loss Filter for Mobile Communication					836,5 MHz	
Datasheet		SME	2			
Characteristics						
Operating temperature Terminating source im Terminating load impe	bedance:	$T = + Z_{S} = 5$ $Z_{L} = 5$				
			min.	typ.	max.	
Center frequency		f _C	_	836,5		MHz
Maximum insertion a	t tenuation 824,0 849,0 M	α _r Hz	ax	1,9	2,1	dB
Ripple	824,0 849,0 M	P-I Hz	-	0,9	1,1	dB
Input return loss @ 5	0 Ohm 824,0 849,0 M⊦	17	10	12		dB
Output return loss @		12		12		
•	824,0 849,0 MH	łz	10	12		dB
Attenuation		α				
	0,0779,0779,0804,0869,0894,0894,01580,01580,01698,01698,02547,0	MHz MHz MHz MHz MHz MHz	33 38 40 33 33 30	36 43 43 37 44 37		dB dB dB dB dB dB

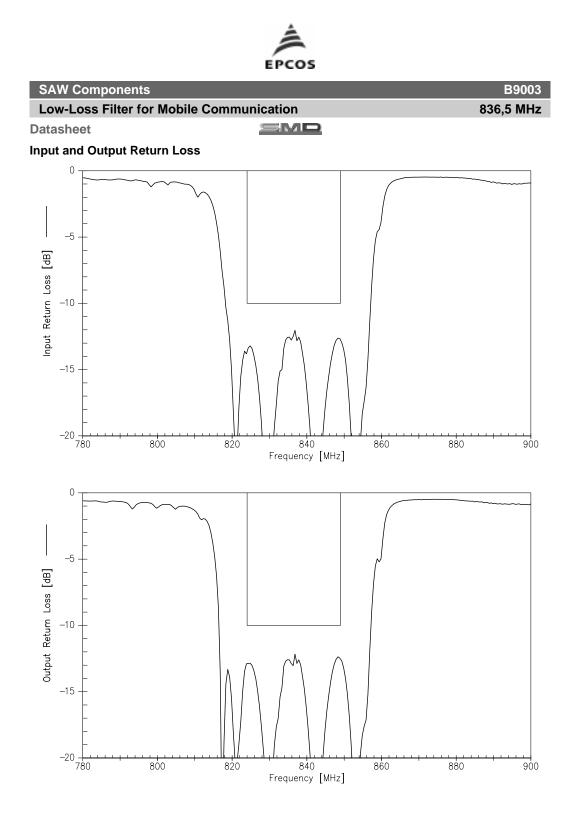
3 March 25, 2004



Low-Loss Filter for Mobile Communication				B9003
	Low-Loss Filter for Mobile Communication			
Datasheet Simo				
Characteristics				
Operating temperature range: $T = -30$ toTerminating source impedance: $Z_{\rm S} = 50 \ \Omega$ Terminating load impedance: $Z_{\rm L} = 50 \ \Omega$	o +85 °C			
	min.	typ.	max.	
Center frequency f _C		836,5	_	MHz
Maximum insertion attenuation α _{max} 824,0 849,0 MHz	_	2,2	2,5	dB
Ripple p-p 824,0 849,0 MHz 824,0 MHz	_	1,1	1,5	dB
Input return loss @ 50 Ohm 824,0 849,0 MHz	10	11,5		dB
Output return loss @ 50 Ohm				
824,0 849,0 MHz	10	11,5		dB
Attenuation α				
0,0 779,0 MHz	33	36	_	dB
779,0 804,0 MHz	38	43	_	dB
869,0 894,0 MHz	40	43	_	dB
894,01580,0 MHz	33	37	—	dB
1580,01698,0 MHz	33	44	—	dB
1698,02547,0 MHz	30	37	—	dB

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	EPCOS	
SAW Components		B9003
Low-Loss Filter for Mobile Communication		836,5 MHz
Datasheet	<u>smd</u>	

Published by EPCOS AG Surface Acoustic Wave Components Division, SAW MC WT P.O. Box 80 17 09, D-81617 München

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