查询B39881-B9001-C710供应商

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# SAW Components

EPCOS

Data Sheet B9001

Data Sheet



EPCO	os
SAW Components	B9001
Low-Loss Filter for Mobile Communication	881,5 MHz
Data Sheet	
Features	Chip sized SAW package QCS5C
Low-loss PE filter for mobile telephone	0.735

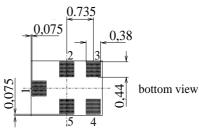
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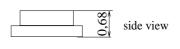
- Low-loss RF filter for mobile telephone GSM850/AMPS system, receive path
- Usable passband 25 MHz
- Unbalanced to balanced operation
- Excellent symmetry
- Impedance transformation from 50 Ω to 150 Ω or 50 Ω to 200 Ω optional
- Suitable for GPRS class 1 to12
- Ceramic package for Surface Mounted Technology (SMT)

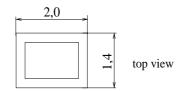
Unbalanced input

**Balanced** output

To be grounded







## Terminals

1

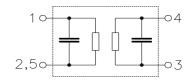
3, 4

2, 5

■ Ni, gold-plated

**Pin configuration** 

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



Туре	Ordering code	Marking and Package according to	Packing according to
B9001	B39881-B9001-C710	C61157-A7-A111	F61074-V8151-Z000

Electrostatic Sensitive Device (ESD)

### **Maximum ratings**

Operable temperature range	Т	- 30 / + 85	°C	
Storage temperature range	T <sub>stg</sub>	– 40 / + 85	°C	
DC voltage	V <sub>DC</sub>	5	V	
ESD	V <sub>ESD</sub>	250	V	HBM
Input power at	P <sub>IN</sub>	16	dBm	peak power of GSM signal,
GSM850, GSM900,				duty cycle 4:8
GSM1800 and GSM1900				
Tx bands				

2



SAW Components					B9001
Low-Loss Filter for Mobile Communication					1,5 MHz
Data Sheet Characteristics	<u>SM</u>				
Operating temperature range: Terminating source impedance: Terminating load impedance:	$Z_{\rm S}$ =	+25 °C 50 Ω (unbala 150 Ω (balan			
		min.	typ.	max.	
Center frequency	f	o —	881,5	_	MHz
Maximum insertion attenuation 869,0 894,0	α MHz	<sup>z</sup> max	1,7	2,0	dB
<b>Amplitude ripple</b> (p-p) 869,0 894,0	Δ MHz	.α _	0,5	0,8	dB
Input return loss 869,0 894,0	MHz	10,0	13,0	_	dB
Output return loss 869,0 894,0	MHz	10,0	13,0	_	dB
<b>Output phase balance</b> (φ(S <sub>31</sub> )-φ(S <sub>21</sub> )+180 869,0 894,0	)°) MHz	-5	0	5	degree
Output amplitude balance ( S <sub>31</sub> /S <sub>21</sub>  ) 869,0 894,0	MHz	-0,5	0	0,5	dB
Attenuation 0,0  840,0   840,0  849,0   914,0  940,0   940,0  6000,0	α MHz MHz MHz MHz	45 35 24 45	52 40 27 55		dB dB dB dB



SAW Components								B9001
Low-Loss Filter for Mobile Communication						881	,5 MHz	
Data Sheet								
Characteristics								
Operating temperature Terminating source imp Terminating load imped	edance	:		= 50 Ω	o +85 °C Ω (unbalanc Ω (balance			
					min.	typ.	max.	
Center frequency				f <sub>C</sub>	—	881,5	—	MHz
Maximum insertion at		on 894,0	MHz	$\alpha_{max}$	_	1,9	2,5	dB
Amplitude ripple (p-p)		894,0	MHz	Δα	_	0,7	1,3	dB
Input return loss	869,0	894,0	MHz		10,0	13,0	_	dB
Output return loss	869,0	894,0	MHz		10,0	13,0	_	dB
Output phase balance		-φ(S <sub>21</sub> )+180 894,0			-5	0	5	degree
Output amplitude bala		<sub>31</sub> /S <sub>21</sub>  ) 894,0	MHz		-0,5	0	0,5	dB
Attenuation	840,0 914,0	840,0 849,0 940,0 6000,0	MHz MHz MHz MHz	α	45 35 24 45	52 40 27 55	 	dB dB dB dB



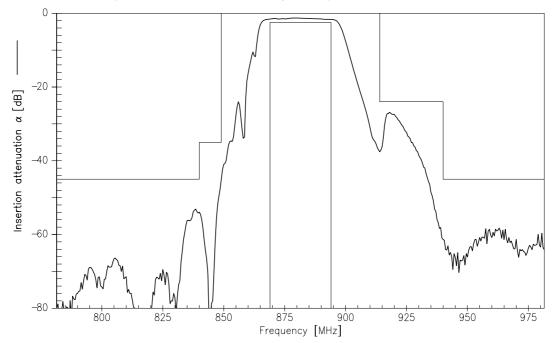
SAW Components								B9001
Low-Loss Filter for	Low-Loss Filter for Mobile Communication 881,5 MH					,5 MHz		
Data Sheet			=n					
Characteristics								
Operating temperature Terminating source imp Terminating load imped	edance	:	$Z_{S}$		°C 2 (unbalanc Ω (balance			
					min.	typ.	max.	
Center frequency				f <sub>C</sub>		881,5		MHz
Maximum insertion at		on 894,0	MHz	$lpha_{max}$	_	1,9	2,2	dB
Amplitude ripple (p-p)		894,0	MHz	Δα		0,7	1,0	dB
Input return loss	869,0	894,0	MHz		10,0	13,0		dB
Output return loss	869,0	894,0	MHz		10,0	12,0		dB
Output phase balance		-φ(S <sub>21</sub> )+180 894,0			-5	0	5	degree
Output amplitude bala		<sub>31</sub> /S <sub>21</sub>  ) 894,0	MHz		-0,5	0	0,5	dB
Attenuation	840,0 914,0	840,0 849,0 940,0 6000,0	MHz MHz MHz MHz	α	45 35 24 45	52 40 26 55	 	dB dB dB dB



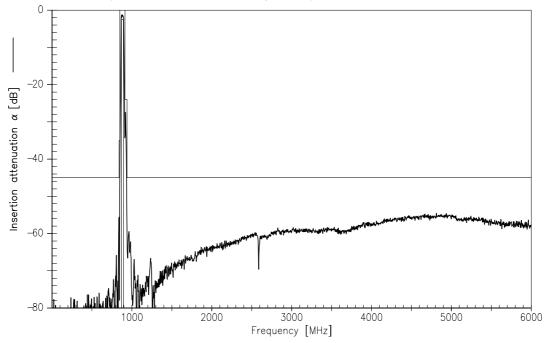
SAW Components	5							B9001
Low-Loss Filter for Mobile Communication						88	1,5 MHz	
Data Sheet Characteristics				<u>40</u>				
Operating temperature Terminating source im Terminating load impe	pedance	:	$Z_{S}$	= 50 Ω	o +85 °C Ω (unbalanc Ω (balance			
					min.	typ.	max.	
Center frequency				f <sub>C</sub>		881,5	-	MHz
Maximum insertion a		<b>on</b> 894,0	MHz	$lpha_{max}$	_	2,1	2,5	dB
Amplitude ripple (p-p		894,0	MHz	Δα	_	0,9	1,3	dB
Input return loss	869,0	894,0	MHz		10,0	13,0	_	dB
Output return loss	869,0	894,0	MHz		10,0	12,0	_	dB
Output phase balanc	• -	-φ(S <sub>21</sub> )+180 894,0	)°) MHz		-5	0	5	degree
Output amplitude ba		<sub>31</sub> /S <sub>21</sub>  ) 894,0	MHz		-0,5	0	0,5	dB
Attenuation				α				
		840,0	MHz		45	52	-	dB
		849,0	MHz		35	40	-	dB
	914,0 940,0	940,0 6000,0	MHz MHz		24 45	26 55		dB dB

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SAW Components		B9001			
Low-Loss Filter for Mo	bile Communication	881,5 MHz			
Data Sheet					

Transfer function (narrowband; 50  $\Omega$  to 150  $\Omega$  operation)



Transfer function (wideband; 50  $\Omega$  to 150  $\Omega$  operation)

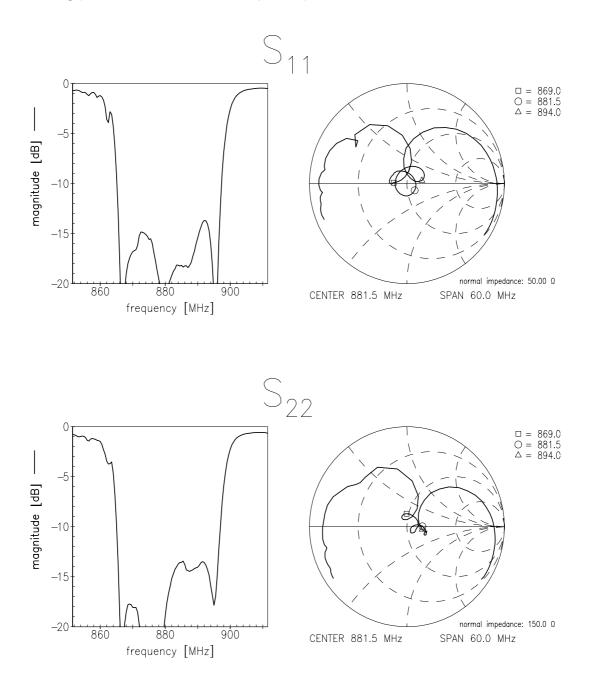


Oct 09, 2003

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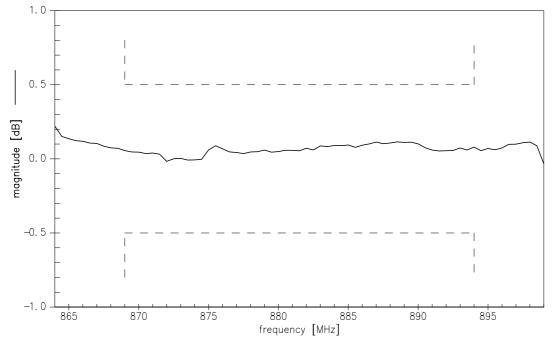
SAW Components		B9001
Low-Loss Filter for Mo	bile Communication	881,5 MHz
Data Sheet		

Matching (measurement; 50  $\Omega$  to 150  $\Omega$  operation)

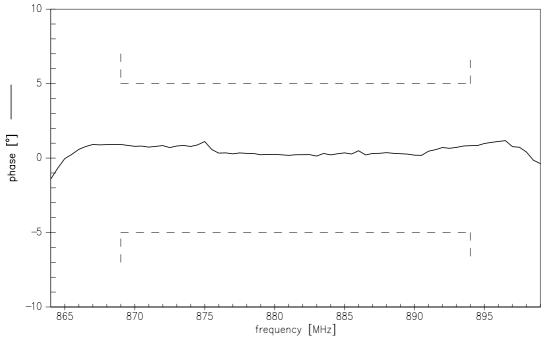


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Low-Loss Filter for Mob	ile Communication	881,5 MHz
Data Sheet	SMD	

Output amplitude balance (|S\_{31}/S\_{21}|; 50  $\Omega$  to 150  $\Omega$  operation)



Output phase balance ( $\phi(S_{31})-\phi(S_{21})+180^{\circ};$  50  $\Omega$  to 150  $\Omega$  operation)



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SAW Components		B9001
Low-Loss Filter for M	obile Communication	881,5 MHz
Data Sheet	SMD	

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