

RF Filters for Cellular Phones

Series/Type: B9032

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39881B9032K310	B39881B9400K610	2007-09-21	2007-12-31	2008-03-31

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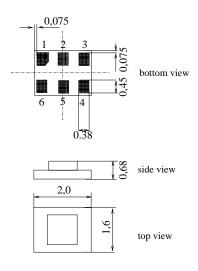
SAW Components	B9032
Low-Loss Filter for Mobile Communication	881,5 MHz

Data Sheet Sheet

Features

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

Chip sized SAW package DCS6T



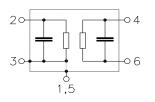
Terminals

■ Ni, gold-plated

Dimensions in mm, approx. weight 0,007g

Pin configuration

2	Unbalanced input		
4, 6	Balanced output		
1, 3, 5	To be grounded		



Туре	Ordering code	Marking and Package according to	Packing according to		
B9032	B39881-B9032-K310	C61157-A7-A128	F61074-V8152-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	- 40 / + 85	°C	
Storage temperature range	T _{stg}	- 40 / + 85	°C	
DC voltage	V _{DC}	3	V	
ESD	V _{ESD}	100*	V	Machine Model, 10 pulses
Input power at GSM850, GSM900 GSM1800, GSM1900 Tx bands	P _{IN}	15	dBm	peak power of GSM signal, duty cycle 4:8

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

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SAW Components					B9032	
Low-Loss Filter for Mobile Communication					881,5 MHz	
Data Sheet Sheet						
Characteristics						
Operating temperature range: Terminating source impedance: Terminating load impedance:		5 °C Ω (unbaland) Ω (balance				
		min.	typ.	max.		
Center frequency	f _C	_	881,5		MHz	
Maximum insertion attenuation 869,0 894,0	α _{max} MHz	_	1,5	1,8	dB	
Amplitude ripple (p-p) 869,0 894,0	$\Delta \alpha$ MHz	_	0,4	0,7	dB	
Input VSWR 869,0 894,0	vswr _{IN} MHz	_	1,6	2,0		
Output VSWR 869,0 894,0	vswr _{ot} MHz	<i>π</i>	1,6	2,0		
Common mode Suppression 824,0 995,0 1648,0 1990,0 3296,0 3980,0	S _{sc12} MHz MHz MHz	2 20 20 20 20	27 50 40		dB dB dB	
Attenuation 0,0 450,0 450,0 820,0 849,0 914,0 1738,0 1738,0 1788,0 4000,0 6000,0	α MHz MHz MHz MHz MHz MHz MHz	45 30 30 25 45 40 20	57 34 34 29 55 47 30		dB dB dB dB dB dB dB	

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SAW Components					B9032
Low-Loss Filter for Mobile Commun	881,5 MHz				
Data Sheet Sheet					
Characteristics					
Operating temperature range: Terminating source impedance: Terminating load impedance:	$Z_{\rm S}$ =	-10 to +80 $^{\circ}$ C 50 Ω (unbalance 150 Ω (balance			
		min.	typ.	max.	
Center frequency	f	c —	881,5	—	MHz
Maximum insertion attenuation 869,0 894,0	o MHz	⁴ max	1,5	1,8 ¹⁾	dB
Amplitude ripple (p-p) 869,0 894,0	∆ MHz	Δα	0,4	0,8	dB
Input VSWR	V	swr _{IN}			
869,0 894,0	MHz	_	1,6	2,0	
Output VSWR	V	swr _{OUT}			
869,0 894,0	MHz	_	1,6	2,0	
Common mode Suppression	S	S _{sc12}			
824,0 995,0	MHz	20	27	_	dB
1648,01990,0	MHz	20	50	_	dB
3296,03980,0	MHz	20	40	—	dB
Attenuation	0	x			
0,0 450,0	MHz	45	57		dB
450,0 820,0	MHz	30	34	_	dB
820,0 849,0	MHz	30	34	_	dB
914,01738,0	MHz	25	29	_	dB
1738,01788,0	MHz	45	55	_	dB
1788,04000,0	MHz	40	47	—	dB
4000,06000,0	MHz	20	30	_	dB

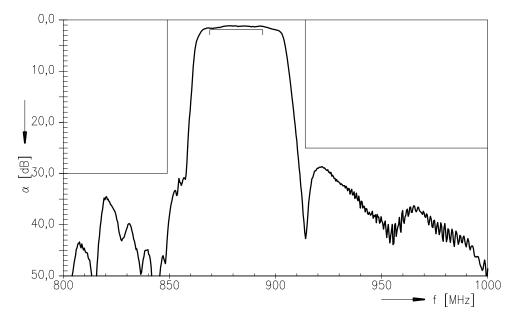
1) Maximum insertion attenuation from -30 to -10 & from +80 to +85 °C is 2.0 dB



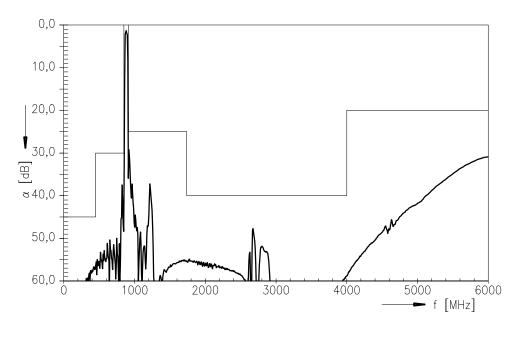


Data Sheet Sheet

Transfer function (narrowband; 50 Ω to 150 Ω operation)



Transfer function (wideband; 50 Ω to 150 Ω operation)



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Data Sheet Sheet

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