



SAW Components

SAW Rx Filter

GSM 850

Series/Type:	B9035
Ordering code:	B39881-B9035-E610
Date:	Dec 06, 2005
Version:	2.0



SAW Components

B9035

Low-Loss Filter for Mobile Communication

881.5 MHz

Data Sheet



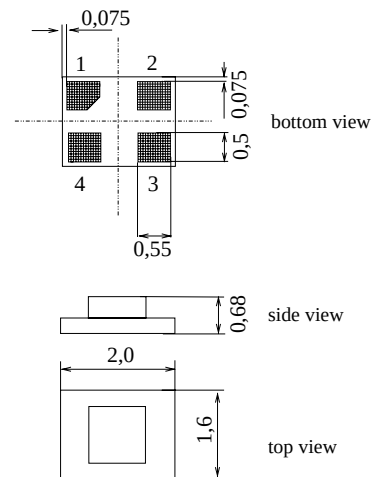
Application

- Low-loss RF filter for mobile telephone
Cellular systems, CDMA and W-CDMA
receive path (Rx)
- Very high Tx suppression
- For operation in Rx diversity path
- Usable passband 25 MHz
- Unbalanced operation
- Impedance 50 Ω input and output



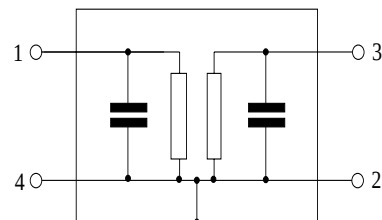
Features

- Package size 2.0 x 1.6 x 0.68 mm³
- RoHS compliant
- Approx. weight 0.007 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals



Pin configuration

- 1 Input, unbalanced
- 3 Output, unbalanced
- 2,4 To be grounded





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Characteristics

Operating temperature range:	T	=	-30 to +85 °C
Terminating source impedance:	Z_S	=	50Ω
Terminating load impedance:	Z_L	=	50Ω

				B9035			
				min.	typ. @ 25°C	max.	
Center frequency	f_C			—	881.5	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$			—	2.1	2.5	dB
	869.0 ... 894.0	MHz					
Amplitude ripple (p-p)	$\Delta\alpha$			—	0.7	1.2	dB
	869.0 ... 894.0	MHz					
Input VSWR				—	1.7	2.0	
	869.0 ... 894.0	MHz					
Output VSWR				—	1.7	2.0	
	869.0 ... 894.0	MHz					
Attenuation	α						
	0.3 ... 824.0	MHz		46	53	—	dB
	824.0 ... 849.0	MHz		46	53	—	dB
	914.0 ... 950.0	MHz		20	30	—	dB
	950.0 ... 1500.0	MHz		46	60	—	dB
	1500.0 ... 2200.0	MHz		46	56	—	dB
	2200.0 ... 3000.0	MHz		30	41	—	dB
	3000.0 ... 4500.0	MHz		20	30	—	dB
	4500.0 ... 6000.0	MHz		15	20	—	dB

Maximum ratings

Operable temperature range	T	-30/+85	°C	machine model, 10 pulses
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	5	V	
ESD voltage	V_{ESD}	100 ¹⁾	V	
Input Power	P_{IN}	15	dBm	

¹⁾ acc. to JESD22-A115A (machine model), 10 negative & 10 positive pulses.

Please read *cautions and warnings and important notes* at the end of this document.



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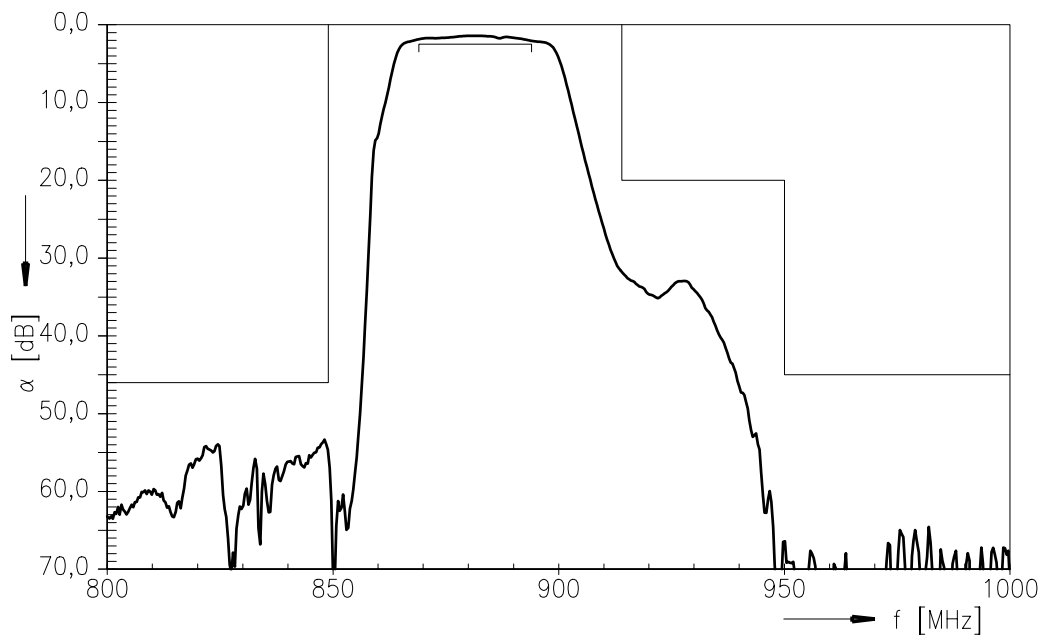
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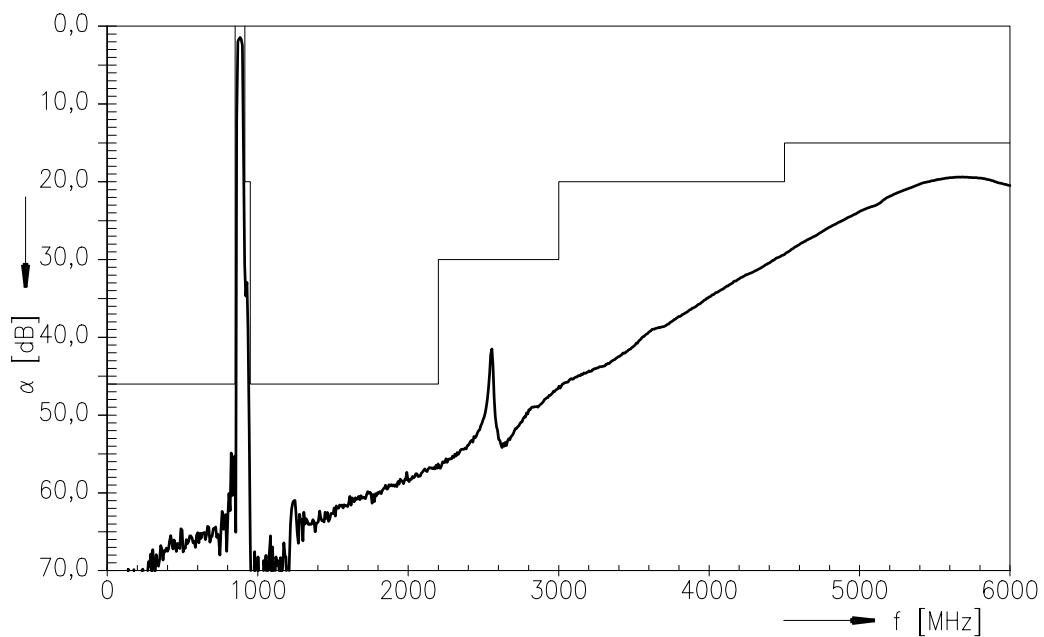
Data Sheet



Transfer function



Transfer function



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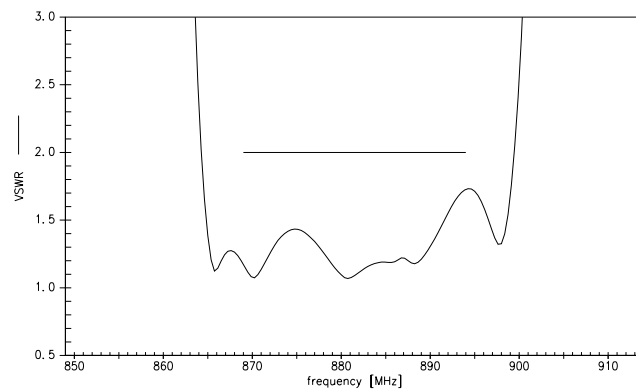
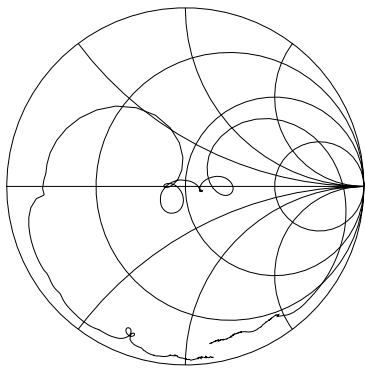
881.5 MHz

Data Sheet

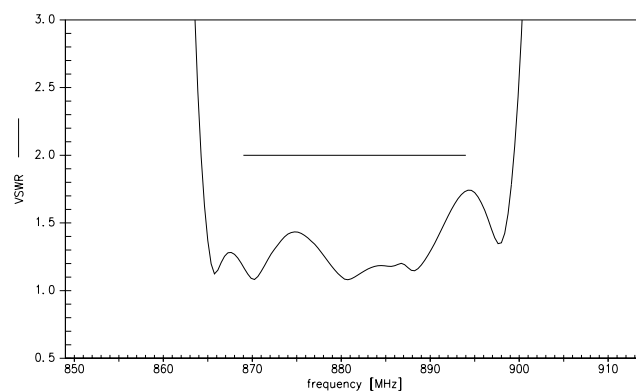
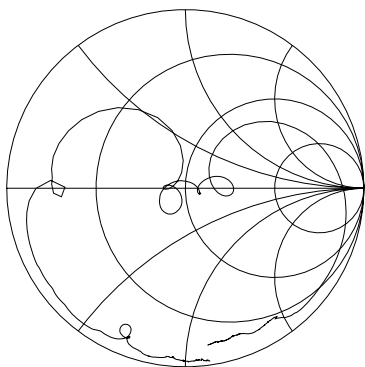


Smith chart / VSWR

S_{11} function



S_{22} function



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Type	B9035	
Ordering code	B39881-B9035-E610	
Marking and Package	C61157-A7-A113	
Packaging	F61074-V8152-Z000	
Date Codes	L_1126	
S-Parameters	B9035_NB.s3p B9035_WB.s3p	
Soldering profile	S_6001	

For further information please contact your local EPCOS sales office or visit our webpage at www.epcos.com .

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