



SAW Components

SAW Rx Filter

GSM 850

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

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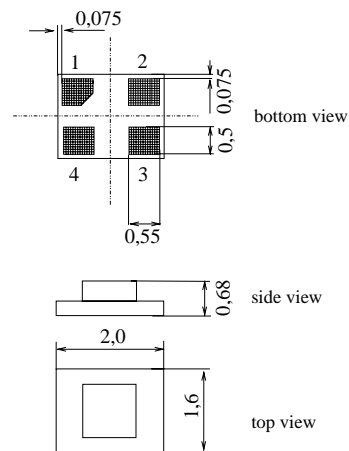
Application

- 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



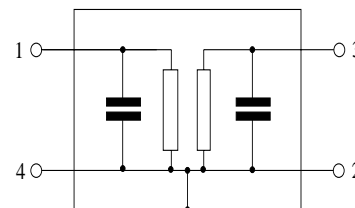
Features

- 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





Data Sheet



Characteristics

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

				B9035			
				min.	typ. @ 25°C	max.	
Center frequency	f_C	—	—	881.5	—	—	MHz
Maximum insertion attenuation	α_{max}	869.0 ... 894.0	MHz	—	2.1	2.5	dB
Amplitude ripple (p-p)	$\Delta\alpha$	869.0 ... 894.0	MHz	—	0.7	1.2	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	0.3 ... 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

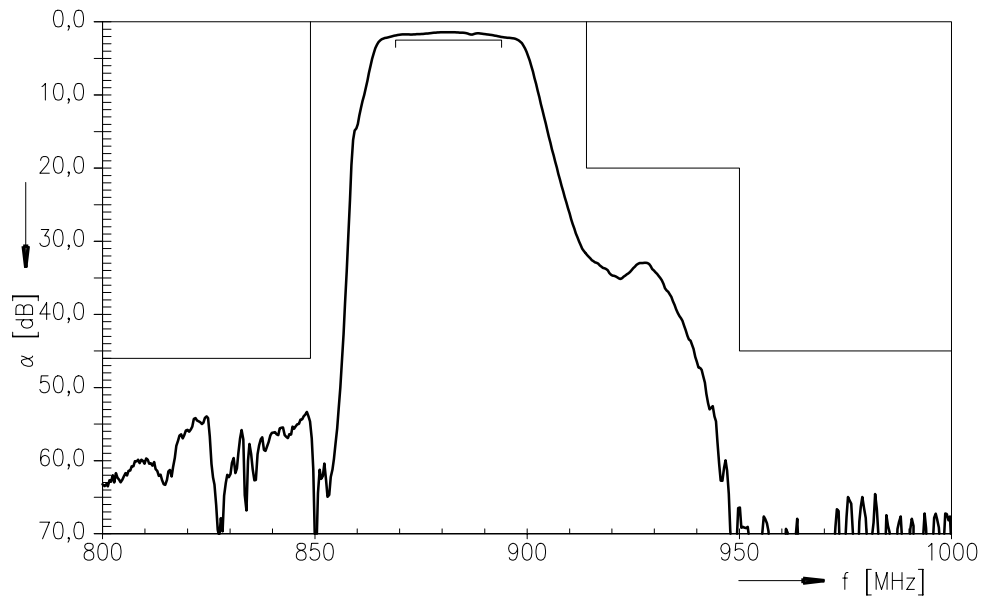
Maximum ratings

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

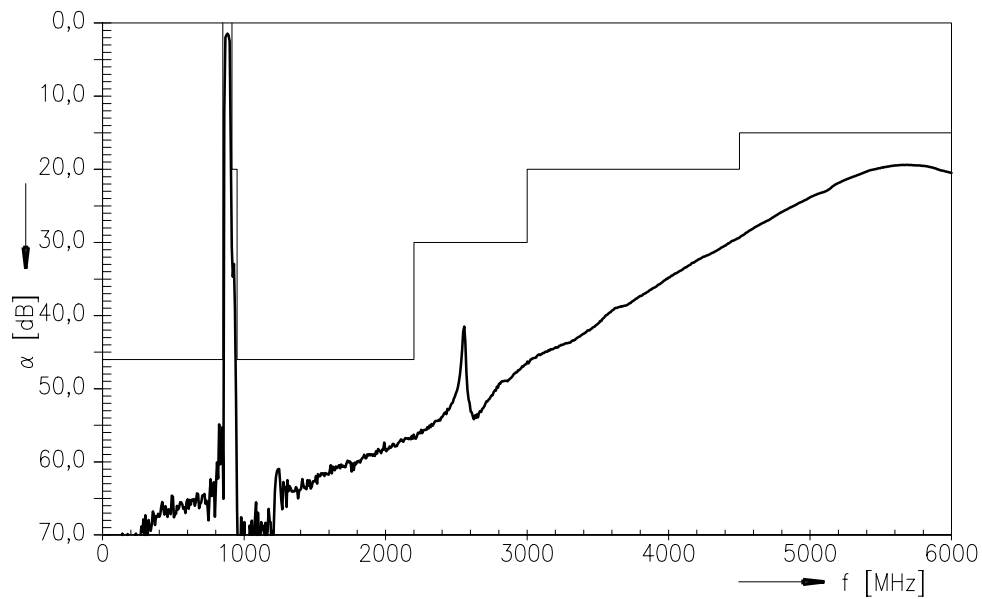
¹⁾ acc. to JESD22-A115A (machine model), 10 negative & 10 positive pulses.



Transfer function



Transfer function



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



SAW Components

B9035

Low-Loss Filter for Mobile Communication

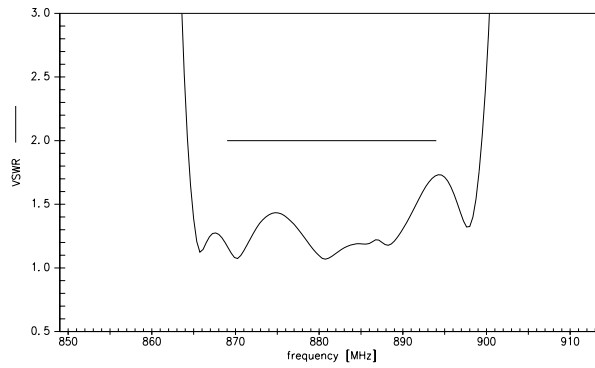
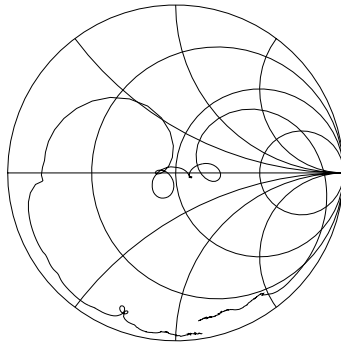
881.5 MHz

Data Sheet

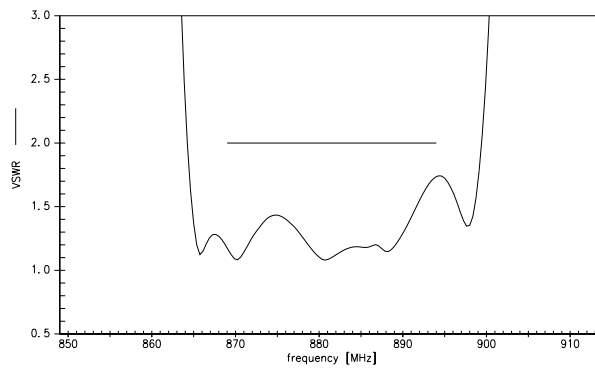
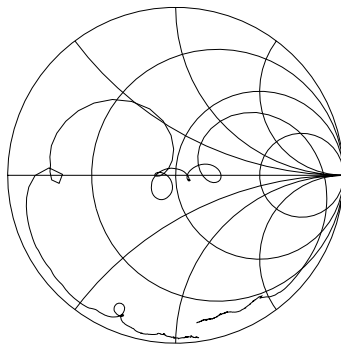


Smith chart / VSWR

S_{11} function



S_{22} function



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SAW Components **B9035**

Low-Loss Filter for Mobile Communication **881.5 MHz**

Data Sheet



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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