

SAW Rx Filter
GSM 850

Series/Type: B9035

Ordering code: B39881-B9035-E610

Date: Dec 06, 2005

Version: 2.0

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B9035

Low-Loss Filter for Mobile Communication

881.5 MHz

Data Sheet



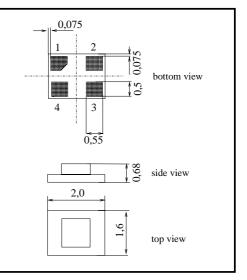
Application

- 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
- \blacksquare Impedance 50 Ω input and output



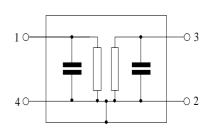
Features

- Package size 2.0 x1.6 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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=MD

Characteristics

Operating temperature range: $T = -30 \text{ to } +85 \text{ }^{\circ}\text{C}$

Terminating source impedance: $Z_{\rm S} = 50\Omega$ Terminating load impedance: $Z_{\rm L} = 50\Omega$

		B9035			
		min.	typ. @ 25°C	max.	
Center frequency	f _C	_	881.5	_	MHz
Maximum insertion attenuation					
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		<u> </u>	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
4500.06000.0 MHz		15	20		dB

Maximum ratings

Operable temperature range	Т	-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.

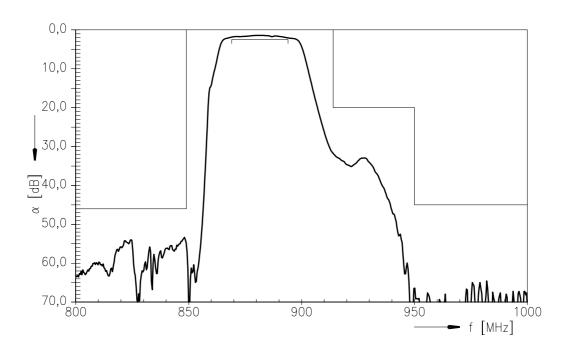


SAW Components B9035
Low-Loss Filter for Mobile Communication 881.5 MHz

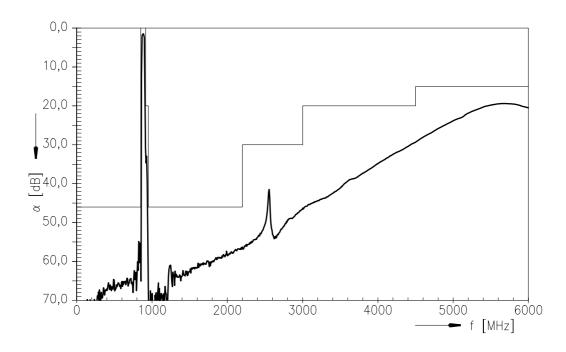
Data Sheet



Transfer function



Transfer function





B9035

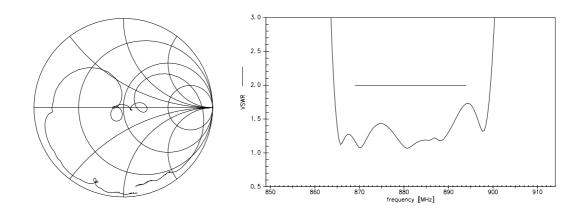
Low-Loss Filter for Mobile Communication

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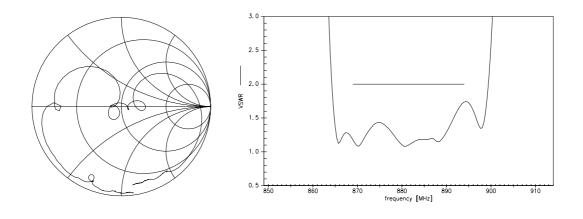
Data Sheet

Smith chart / VSWR

S₁₁ function



S_{22} function





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Туре	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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