



SAW Components

SAW Filter

TD-SCDMA 1900

Series/Type:	B9468
Ordering code:	B39192B9468P810
Date:	September 01 , 2010
Version:	2.0



SAW Components

B9468

SAW Tx Filter

1900.0 MHz

Data sheet



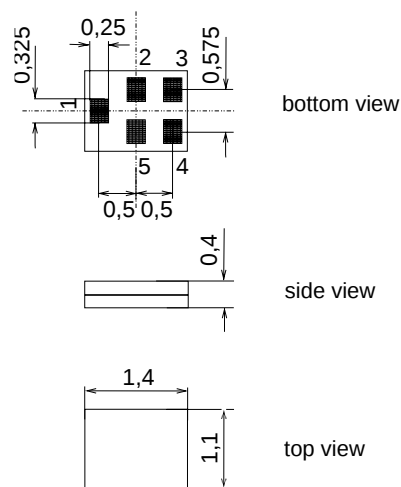
Application

- Low-loss RF filter for mobile telephone TD-SCDMA systems.
- Unbalanced to balanced operation
- Low amplitude ripple
- Usable passband 40MHz
- Impedance 50 Ω at input and 200 Ω balanced output
- No matching network



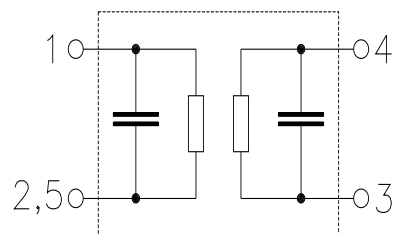
Features

- Package size 1.4 x 1.1 x 0.4 mm³
- RoHS compatible
- Approx. weight 0.003g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)
- Moisture Sensitive Level 3



Pin configuration

- 1 Input unbalanced
- 3,4 Output balanced
- 2,5 To be grounded





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Characteristics

Temperature range for specification: $T = -30\text{ °C to }+80\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 200\ \Omega$

		min.	typ. @ 25 °C	max.	
Center frequency	f_C	—	1900.0	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$	—	1.5	2.0	dB
1880.0 ... 1920.0MHz		—	1.5	2.0	dB
Amplitude ripple (p-p)	$\Delta\alpha$	—	0.5	1.1	dB
1880.0 ... 1920.0MHz		—	0.5	1.1	dB
Input VSWR		—	1.7	2.0	
1880.0 ... 1920.0MHz		—	1.7	2.0	
Output VSWR		—	1.7	2.1	
1880.0 ... 1920.0MHz		—	1.7	2.1	
Group delay ripple (p-p)		—	11	20	ns
1880.0 ... 1920.0MHz		—	11	20	ns
Common mode rejection ratio		23	29	—	dB
1880.0 ... 1920.0MHz		23	29	—	dB
Attenuation	α				
0.0 ... 925.0MHz		28	67	—	dB
925.0 ... 960.0MHz		35	67	—	dB
960.0 ... 1805.0MHz		28	37	—	dB
1805.0 ... 1840.0MHz		30	35	—	dB
1840.0 ... 1850.0MHz		25	40	—	dB
1980.0 ... 2005.0MHz		15	28	—	dB
2005.0 ... 6000.0MHz		28	33	—	dB



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Maximum ratings

Operable temperature range	T	−40/+85	°C	
Storage temperature range	T _{stg}	−40/+85	°C	
DC voltage	V _{DC}	3	V	
ESD voltage	V _{ESD}	50 ¹⁾	V	machine model, 1 pulse
Input Power at 1880.0 ... 1920.0 MHz	P _{IN}	12	dBm	continuous wave

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



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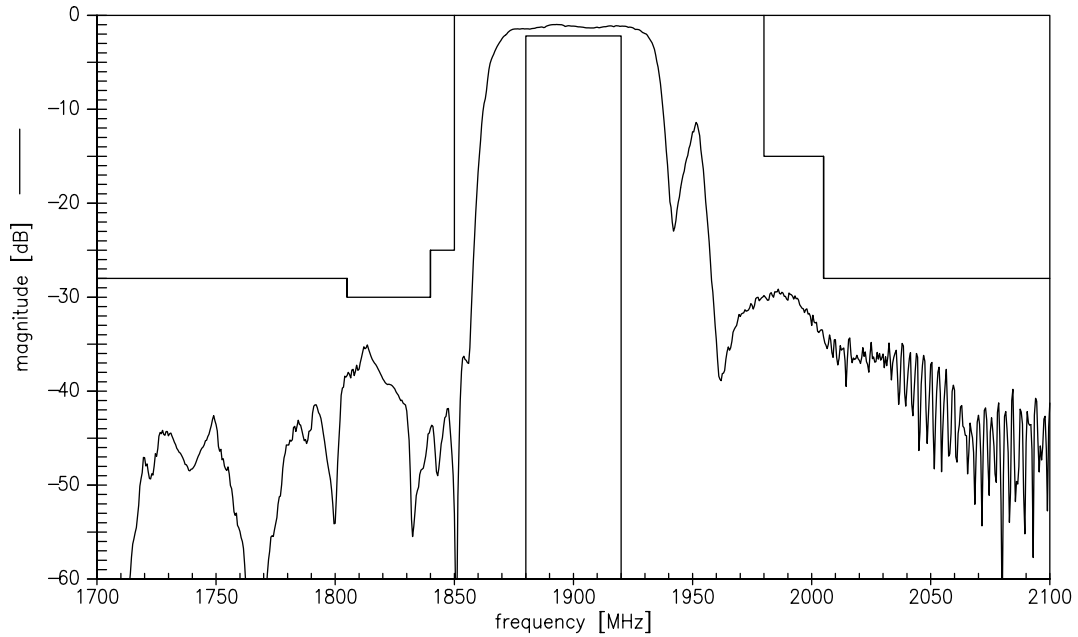
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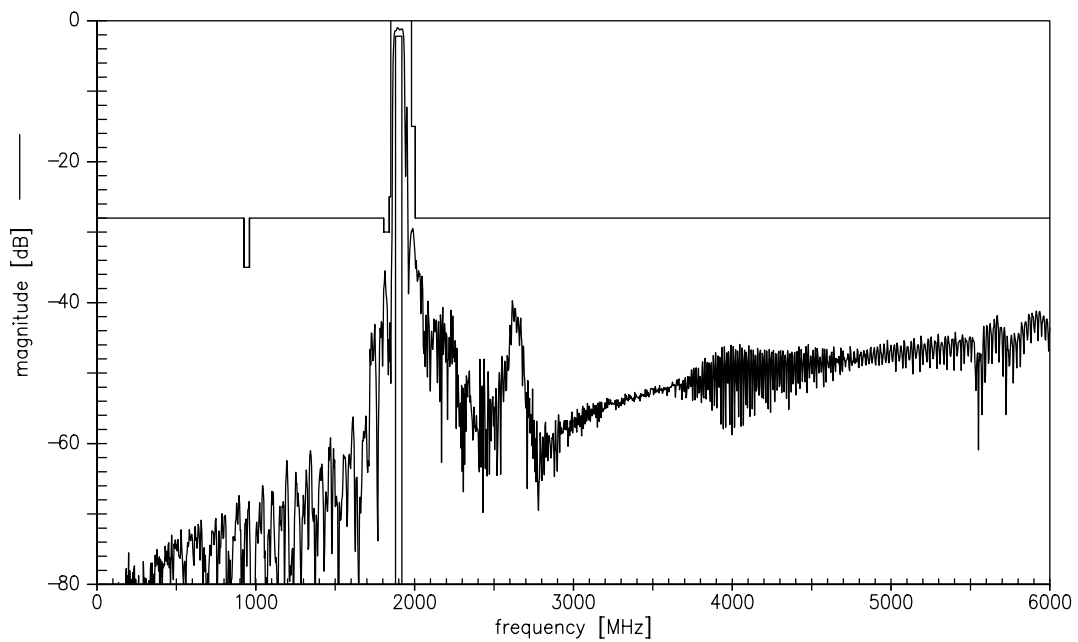
Data sheet



Transfer function

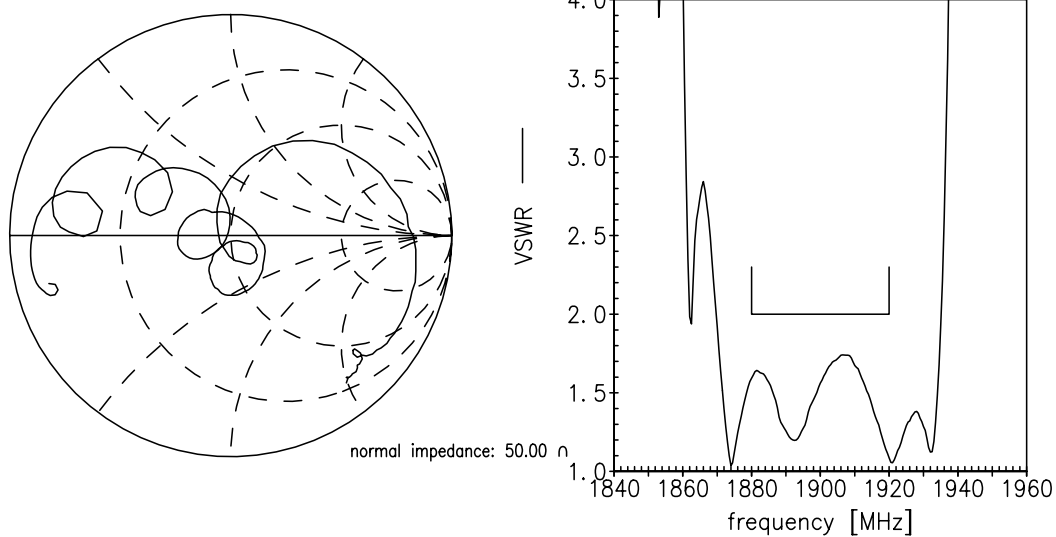


Transfer function (wideband)

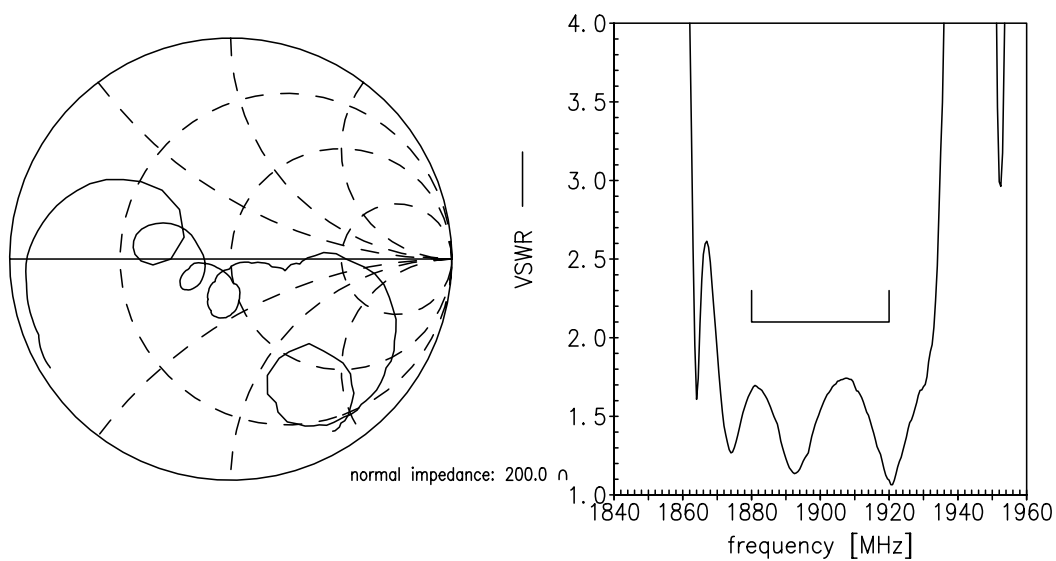


Please read *cautions and warnings* and *important notes* at the end of this document.

S_{11} function



S_{22} function



**SAW Components****B9468****SAW Tx Filter****1900.0 MHz**

Data sheet

**References**

Type	B9468
Ordering code	B39192B9458P810
Marking and package	C61157-A8-A14
Packaging	F61074-V8237-Z000
Date codes	L_1126
S-parameters	B9468_NB.s3p, B9468_WB.s3p see file header for port/pin assignment table
Soldering profile	S_6001
RoHS compatible	defined as compatible with the following documents: "DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment. 2005/618/EC from April 18th, 2005, amending Directive 2002/95/EC of the European Parliament and of the Council for the purposes of establishing the maximum concentration values for certain hazardous substances in electrical and electronic equipment."
Moldability	Before using in overmolding environment, please contact your EPCOS sales office.
Matching coils	See http://www.tdk.co.jp/tefe02/coil.htm#aname1 http://www.tdk.co.jp/etvcl/index.htm for a large variety of matching coils.

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

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