



SAW Components

SAW Diversity Rx filter

WCDMA Band I/IV

Series/type:	B9469
Ordering code:	B39212B9469K610
Date:	November 24, 2010
Version:	2.0

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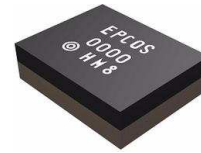


Data Sheet



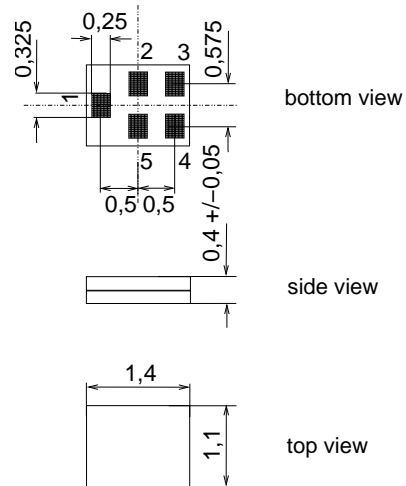
Application

- Low-loss RF filter for mobile telephone WCDMA Band I/IV systems (diversity) receive path (RX)
- Usable for diversity application
- Usable passband 60 MHz
- Unbalanced to balanced operation (50Ω /100Ω)



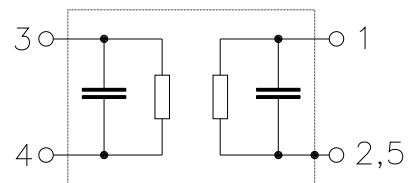
Features

- Package size 1.4 x 1.1 x 0.4 mm³
- RoHS compatible
- Approximate weight 0.003 g
- 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



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



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SAW RF Filter	2140.0 MHz

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Characteristics

Temperature range for specification: T = -30 °C to +85 °C
 Terminating source impedance: Z_S = 50 Ω (unbalanced)
 Terminating load impedance: Z_L = 100 Ω || 22 nH (balanced)

				min.	typ. @ 25 °C	max.	
Center frequency		f _C		—	2140.0	—	MHz
Maximum insertion attenuation	2110.0 ... 2170.0	MHz	α _{max}	—	2.2	2.5	dB
Amplitude ripple (p-p)	2110.0 ... 2170.0	MHz	Δα	—	0.7	1.0	dB
CMRR (S₂₁-S₃₁ / S₂₁+S₃₁)	2110.0 ... 2170.0	MHz	CMRR ¹⁾	23	29		dB
Input VSWR	2110.0 ... 2170.0	MHz		—	1.7	2.0	
Output VSWR	2110.0 ... 2170.0	MHz		—	1.8	2.0	
Attenuation			α				
	0.0 ... 1920.0	MHz		40	49		dB
	810.0 ... 849.0	MHz		50	61		dB
	898.0 ... 925.0	MHz		50	61		dB
	1710.0 ... 1755.0	MHz		46	52		dB
	1920.0 ... 1980.0	MHz		46	56		dB
	1980.0 ... 2050.0	MHz		25	39		dB
	2400.0 ... 2484.0	MHz		30	44		dB
	2484.0 ... 3000.0	MHz		35	45		dB
	3000.0 ... 6000.0	MHz		40	45		dB

¹⁾ A combination of 5° phase balance and 1 dB amplitude balance corresponds to 23 dB CMRR

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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}	3	V	
ESD voltage	V _{ESD}	50 ¹⁾	V	
Input power at				
824.0 ... 849.0 MHz				
880.0 ... 915.0 MHz				
1710.0 ... 1755.0 MHz				
1920.0 ... 1980.0 MHz		15	dBm	
else where	P _{IN}	10	dBm	

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



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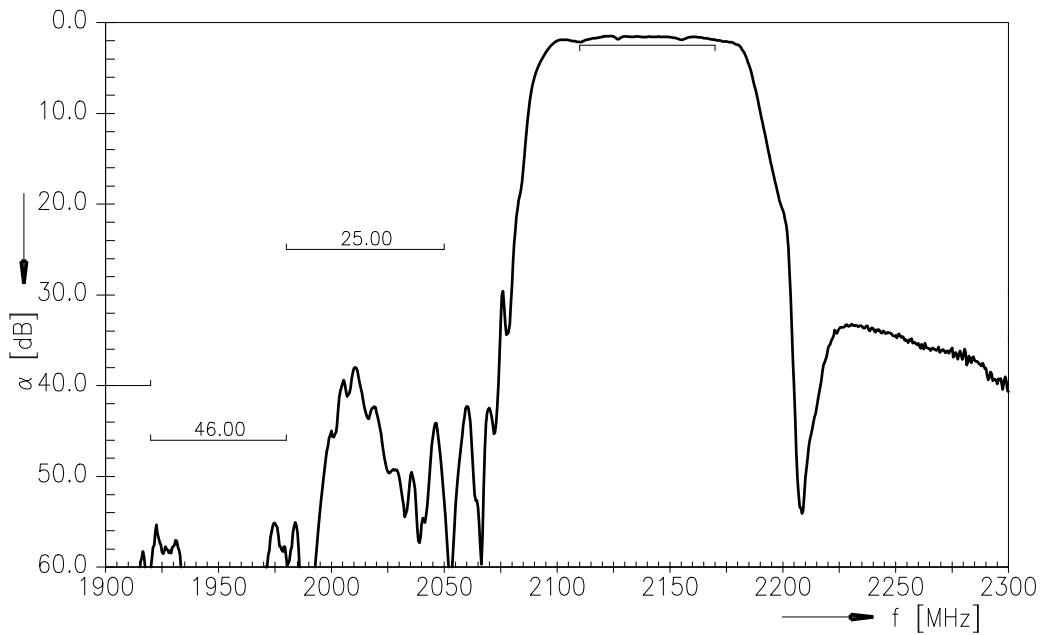
SAW RF Filter

2140.0 MHz

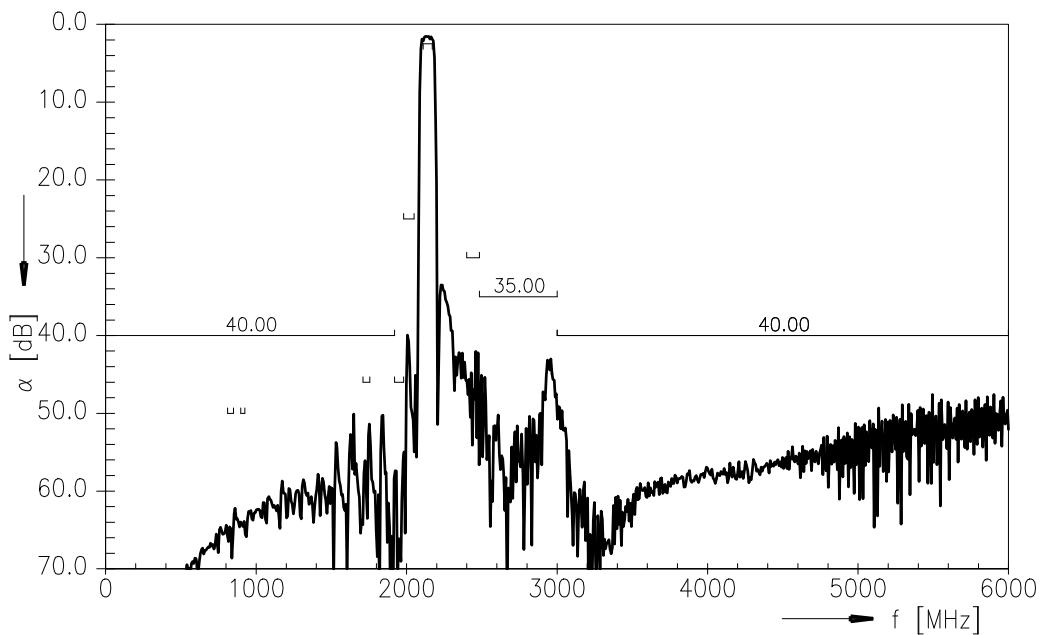
Data Sheet

SMD

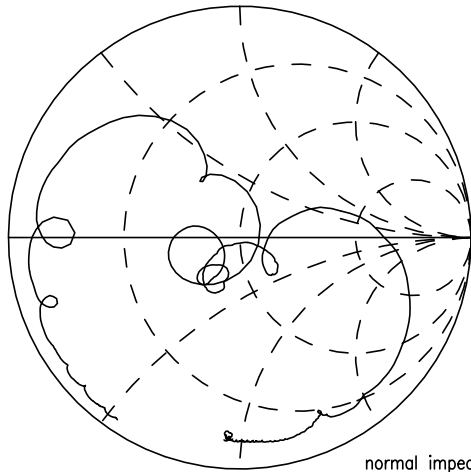
Transfer function



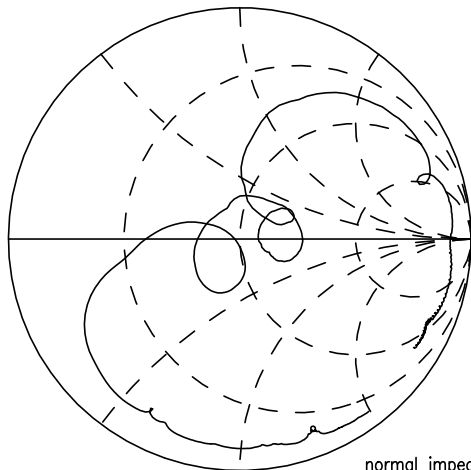
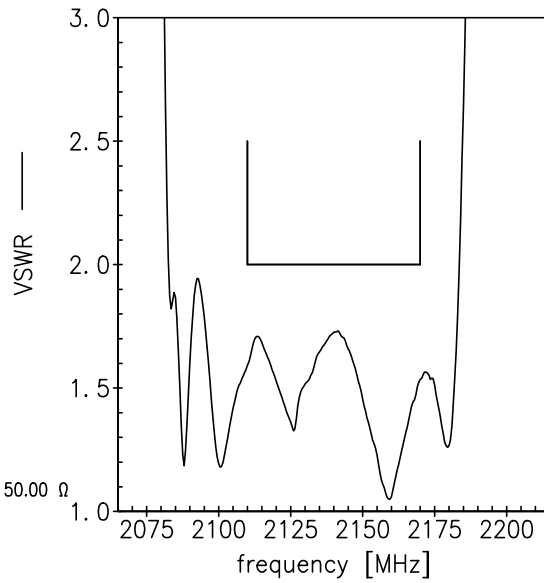
Transfer function (wideband)



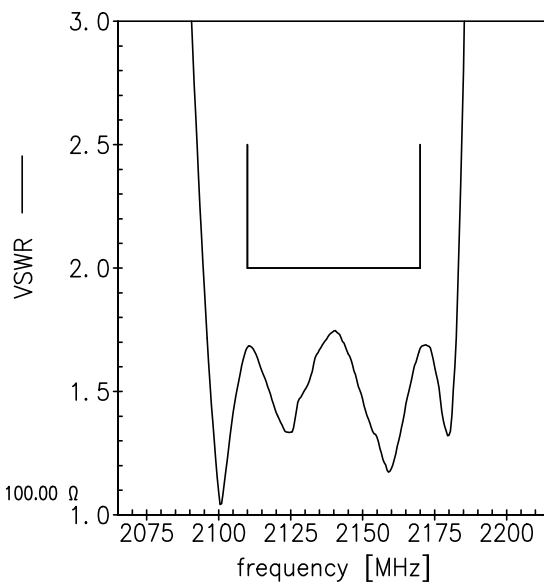
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normal impedance: 50.00 Ω



normal impedance: 100.00 Ω



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References

Type	B9469
Ordering code	B39212B9469K610
Marking and package	C61157-A8-A1
Packaging	F61074-V8212-Z000
Date codes	L_1126
S-parameters	B9469_UN_NB.s3p, B9469_UN_WB.s3p See file header for port/pin assignment table.
Soldering profile	S_6001
RoHS compatible	defined as compatible with the following documents: CTIVE 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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7 November 24, 2010



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