

SAW Components

SAW Diversity Rx filter WCDMA Band I/IV

Series/type: Ordering code:

B9469 B39212B9469K610

Date: Version: November 24, 2010 2.0

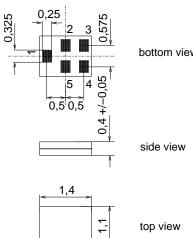
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El COS	
SAW Components	B9469
SAW RF Filter	2140.0 MHz
Data Sheet SMD	
Application	
 Low-loss RF filter for mobile telephone WCDMA Band I/IV systems (diversity) receive path (RX) Usable for diversity application Usable passband 60 MHz Unbalanced to balanced operation (50Ω /100Ω) 	
Features	დ 0,25 დ.
 Package size 1.4 x 1.1 x 0.4 mm³ RoHS compatible Approximate weight 0.003 g 	bottom view

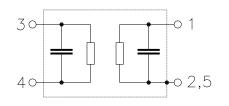
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- Approximate weight 0.003 g
 Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)
- Moisture Sensitive Level 3



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 Componer	115						B946
SAW RF Filter							2140.0 Mł
Data Sheet			SMD				
Characteristics							
Temperature range	for specificatio	n:	T = -3	30 °C to	+85 °C		
Terminating source			Z _S =				
Terminating load im					nH (balanc	ed)	
					1 .		
				min.	typ. @ 25 °C	max.	
Center frequency			f _C		2140.0		MHz
Center frequency			чС		2140.0		
Maximum insertio	n attenuation						
2110	0.0 2170.0	MHz	α_{max}		2.2	2.5	dB
			max				
Amplitude ripple (n-n)		Δα				
	0.0 2170.0	MHz	200		0.7	1.0	dB
					0.7	1.0	uв
CMRR (S ₂₁ -S ₃₁ /	Sad+Sad)						
	0.0 2170.0	MHz	CMRR ¹⁾	23	29		dB
			O mark (20			u.D
Input VSWR	0.0 2170.0	MHz			4 7	~ ^ ^	
2110	.0 2170.0				1.7	2.0	
Output VSWR	0.0470.0						
2110	0.0 2170.0	MHz		—	1.8	2.0	
• • •							
Attenuation	1000 0	N/11	α	40	40		dD
-).0 1920.0).0 849.0			40 50	49 61		dB dB
	8.0 849.0 8.0 925.0			50 50	61		dB
	0.0 1755.0			46	52		dB
	0.0 1980.0			46	56		dB
1980				25	39		dB
2400	0.0 2484.0	MHz		30	44		dB
2484				35	45		dB
3000	0.0 6000.0	MHz		40	45		dB

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



SAW Components				B9469
SAW RF Filter				2140.0 MHz
Data Sheet		SM		
Maximum ratings				
Operable temperature range	Т	-30/+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, 10 pulses
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	

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dBm

 $^{1)}\,$ acc. to JESD22-A115A (machine model), 10 negative & 10 positive pulses.

 P_{IN}

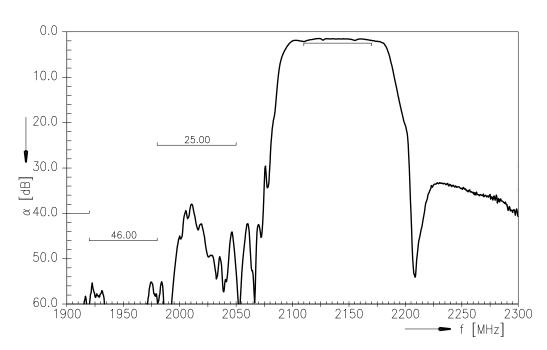
else where

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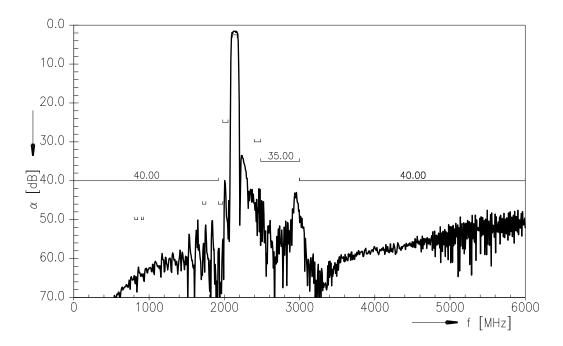


SAW ComponentsB9469SAW RF Filter2140.0 MHzData SheetCOMPONENTIAL

Transfer function



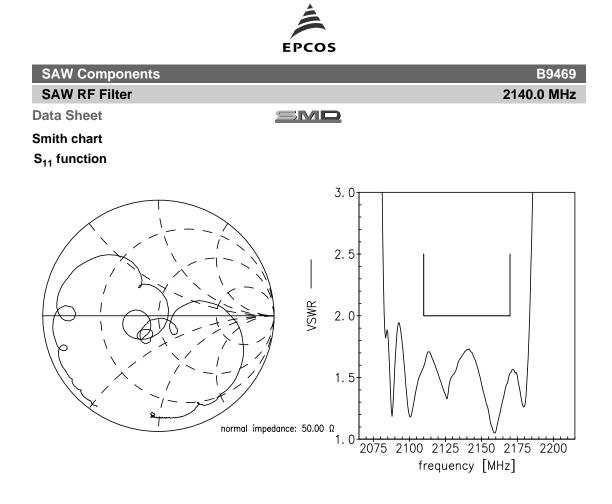
Transfer function (wideband)



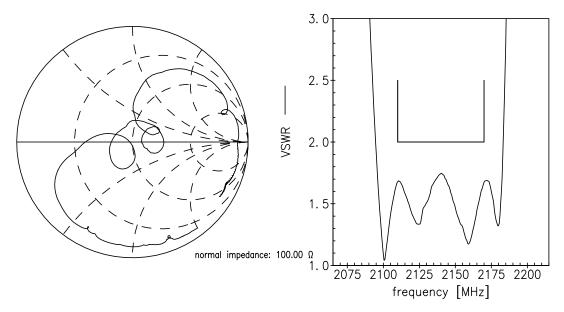
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S₂₂ function



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SAW RF Filter

Data Sheet

SMD

References

Туре	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 Di- rective 2002/95/EC of the European Parliament and of the Council for the purposes of establishing the maximum concen- tration values for certain hazardous substances in electrical and electronic equipment."
Moldability	Before using in overmolding enviroment, 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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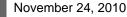


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