

SAW Components

SAW Tx Filter LTE Band 13

Series/type: Ordering code:

B9865 B39781B9865P810

Date: Version: May 03, 2012 2.0

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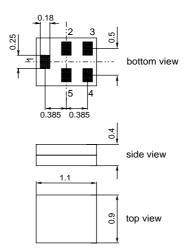
SAW Components		B9865
SAW Tx Filter		782.0 MHz
Datasheet	SMD	
Application		
Low-loss PE filter for LTE system	ne (Tx)	

- Low-loss RF filter for LTE systems (Tx)
- Impedance 50 Ω input and output
- Unbalanced / unbalanced operation
- Usable passband 10MHz



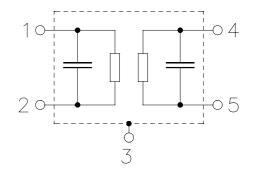
Features

- Package size 1.1 x0.9 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 Sensitivity Level 3



Pin configuration

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



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

May 03, 2012

2

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SAW Tx Filter					782
Datasheet	SM				
Characteristics					
Temperature range for specification: Terminating source impedance:	Z _S :	= 50 Ω	C to +85 ° 2 (unbaland	ced)	
Terminating load impedance:	Z _L :	= 50 \	2 (unbaland	cea)	
		AI54A			
		min.	typ. @ 25 °C	max.	
Center frequency	f _C	_	782.0	_	MHz
Maximum insertion attenuation	α_{max}				
777.0 787.0MHz	∽max	_	1.5	2.0	dB
Amplitude ripple (p-p) 777.0 787.0MHz		_	0.5	1.0	dB
			0.0	1.0	
Input VSWR					
777.0 787.0MHz		-	1.5	2.0	
Output VSWR					
777.0 787.0MHz		_	1.5	2.0	
Abachita attenuation					
Absolute attenuation 11 716.0MHz	α	45	70	_	dB
716.0 728.0MHz		45	54		dB
728.0 746.0MHz		45	50.0		dB
746.0 756.0MHz		45	50.0		dB
		45 25	38.0	_	dB
					dB
		10	20.0	_	dB
808.0 818.0MHz		30	38.0	_	
869.0 894.0MHz		30	60.0	_	dB
1554.0 1565.0MHz		30	55	_	dB
1565.0 1585.0MHz		45	54	_	dB
1597.0 1607.0MHz		45	54	_	dB
1805.0 1880.0MHz		30	50	—	dB
1930.0 1990.0MHz		30	50	—	dB
2110.0 2170.0MHz		30	47	—	dB
2331.0 2361.0MHz		30	45	—	dB
2400.0 2484.0MHz		35	45	—	dB
3108.0 3148.0MHz		25	40		dB

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SAW Components				B9865
SAW Tx Filter				782.0 MHz
Datasheet		SM		
Maximum ratings				
		1	1.	
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, 1 pulse

10

dBm

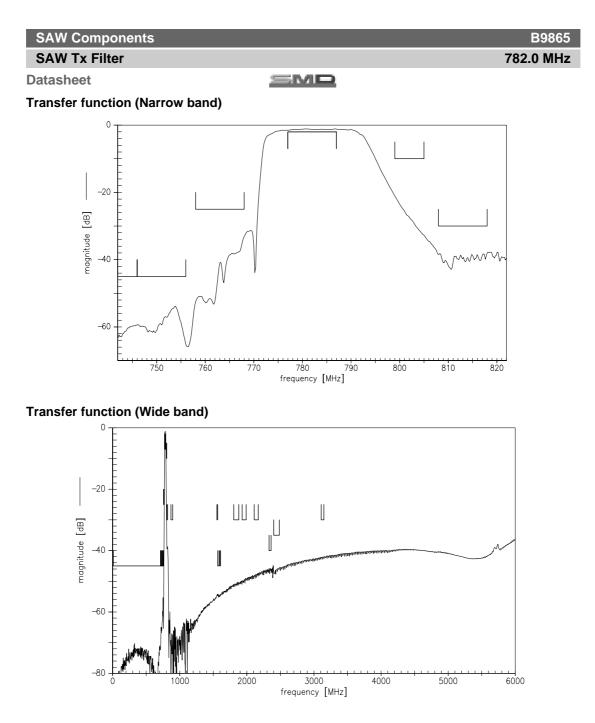
¹⁾ acc. to JESD22-A115A (machine model), 1 negative & 1 positive pulse.

P_{IN}

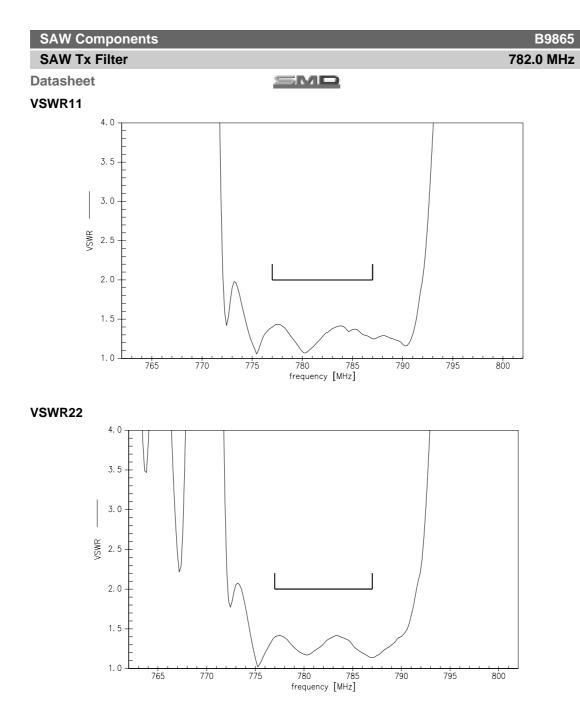
Input power

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SAW Components

SAW Tx Filter

B9865 782.0 MHz

Datasheet

SMD

References

Туре	B9865
Ordering code	B39781B9865P810
Marking and package	C61157-A8-A56
Packaging	F61074-V8255-Z000
Date codes	L_1126
S-parameters	B9865_NB.S2P B9865_WB.S2P
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 maxi- mum concentration values for certain hazardous substances in electrical and electronic equipment."
Moldability	Before using in overmolding environment, please contact your EPCOS sales office.

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