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B39751B9476M410

EN

This Datasheet is presented by the manufacturer

DE

Dieses Datenblatt wird vom Hersteller bereitgestellt FR

Cette fiche technique est présentée par le fabricant



SAW Components

Rx SAW Filter
LTE Band 13

Series/type: B9476

B39751B9476M410

Date: March 23, 2011

Version: 2.1

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SAW Components B9476

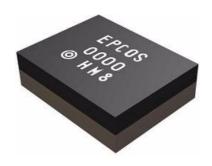
Rx SAW Filter 751.0 MHz

DataSheet

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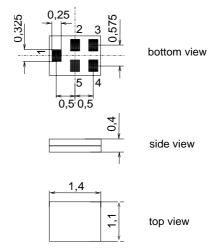
Application

- Rx SAW filter for mobile telephone LTE Band 13 systems
- Rx Path
- Unbalanced / balanced operation
- Low insertion attenuation
- High Tx frequencies attenuation
- Usable passband 10 MHz



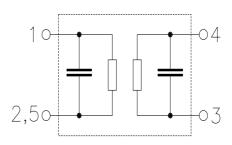
Features

- Package size 1.4 x 1.1 mm², package height 0.4 mm
- RoHS compatible
- Approx. 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
- 3, 4 Output
- 2,5 To be grounded





SAW Components B9476

Rx SAW Filter 751.0 MHz

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Characteristics

Temperature range for specification: T = $-20\,^{\circ}\text{C}$ to $+85\,^{\circ}\text{C}$ Terminating source impedance: $Z_{\text{S}} = 50\,\Omega$ (unbalanced) Terminating load impedance: $Z_{\text{L}} = 100\,\Omega$ (balanced)

		min.	typ. @ 25 °C	max.		
Center frequency	f _C	-	751.0	_	MHz	
Maximum insertion attenuation						
746.0 756.0 MHz	α_{max}	_	2.0	3.0	dB	СТС
Amplitude ripple (p-p)						
746.0 756.0 MHz	$\Delta \alpha$	_	0.7	1.8	dB	
Input VSWR						
746.0 756.0 MHz		_	1.5	2.0		
Output VSWR						
746.0 756.0 MHz		_	1.6	2.0		
Common mode rejection ratio						
Common mode rejection ratio 746.0 756.0 MHz		0.5	0.5			
740.0 730.0 WILL		25	35	_		
Attenuation	α					
10.0 722.0 MHz		50	55	_	dB	
777.0 780.0 MHz		44	48	_	dB	
780.0 787.0 MHz		46	50	_	dB	
787.0 3000.0 MHz		50	55	_	dB	
3001.0 6000.0 MHz		40	48	_	dB	



SAW Components B9476

Rx SAW Filter 751.0 MHz

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Characteristics

Temperature range for specification: T = $-30\,^{\circ}\text{C}$ to $+85\,^{\circ}\text{C}$ Terminating source impedance: $Z_{\text{S}} = 50\,\Omega$ (unbalanced) Terminating load impedance: $Z_{\text{L}} = 100\,\Omega$ (balanced)

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SAW Components	B9476
Rx SAW Filter	751.0 MHz

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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}	1001)	V	machine model, 1 pulse
Input power	P_{IN}	10	dBm	

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



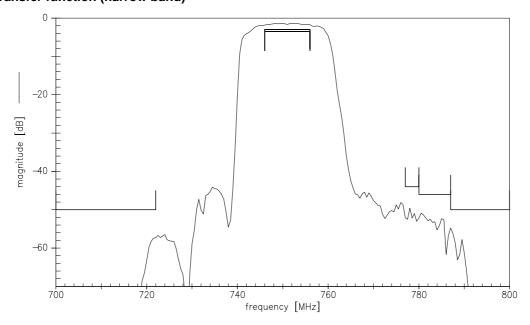
SAW Components

Rx SAW Filter

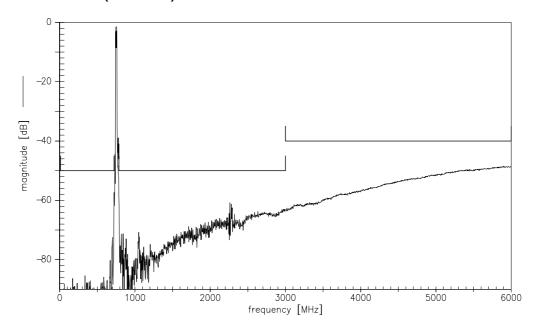
751.0 MHz

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Transfer function (narrow band)



Transfer function (wide band)





SAW Components B9476

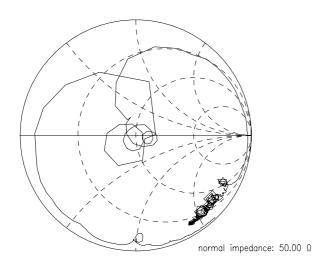
Rx SAW Filter 751.0 MHz

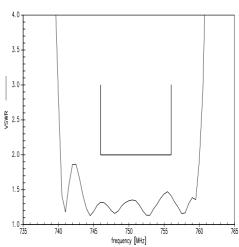
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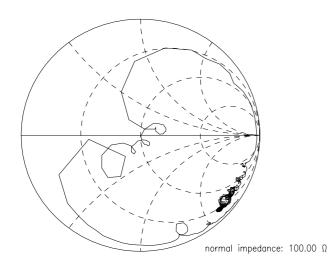
Smith Chart

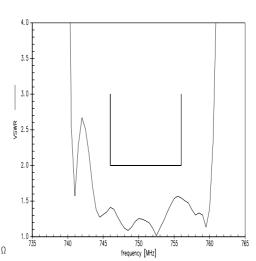
S11 VSWR





S22 VSWR







SAW Components		B9476
Rx SAW Filter		751.0 MHz
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References

Туре	B9476
Ordering code	B39751B9476M410
Marking and package	C61157-A8-A3
Packaging	F61074-V8237-Z000
Date codes	I_1126
S-parameters	B9476_NB.s3p B9476_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."
Matching coils	See Inductor pdf-catalog http://www.tdk.co.jp/tefe02/coil.htm#aname1 and Data Library for circuit simulation http://www.tdk.co.jp/etvcl/index.htm

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