

SAW Components

SAW Diversity filter LTE Band 20

Series/type: Ordering code:

B8302 B39811B8302P810

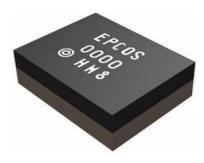
Date: Version: June 27, 2012 2.0

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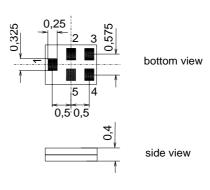
SAW Components		B8302
SAW Diversity filter		806.0 MHz
Data sheet	SMD	
Application		

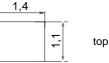
- Low Loss RF filter for LTE band 20, RX path
- Usable band width 30 MHz
- Unbalanced to balanced operation
- \blacksquare Impedance transformation from 50 Ω to 100 Ω
- Very small size and low height



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

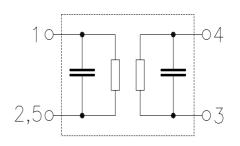






Pin configuration

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



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

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SAW Compon	ents						B8302
SAW Diversity	r filter						806.0 MHz
Data sheet		=n					
Characteristics							
Temperature rang Terminating source Terminating load in	•	Ζ _S	= 50 Ω	C to 85 ℃ 2 Ω 56 nH			
			min.	typ. @ 25 °C	max.		_
Nominal frequer	су	f _N	-	806.0	—	MHz	_
	791.25 820.75 MHz		_	2.6	3.9	dB	
@1 _{Carrier} 7	'93.50 818.50 MHz	$\alpha_{LTE}^{(1)}$		2.3	2.9	dB	
Amplitude ripple	e (p-p) 791.25 820.75 MHz	Δα	_	1.5	2.8	dB	
@f _{Carrier}	793.50 818.50 MHz	$\alpha_{LTE}^{(1)}$	_	0.8	1.5	dB	
Input VSWR	791.25 820.75 MHz	:	_	1.9	2.2		
Output VSWR	791.25 820.75 MHz	:	_	1.9	2.2		
Common mode	rejection ratio 791.25 820.75 MHz	<u>.</u>	25	30	_	dB	
Absolute attenu	ation	α					
8	0.3 770.0MHz 32.25 861.75MHz 62.0 4000.0MHz 00.0 6000.0MHz	<u>.</u>	40.0 40.0 40.0 30.0	46 43 55 50	 	dB dB dB dB	

¹⁾ Mean value in any 5MHz channel.

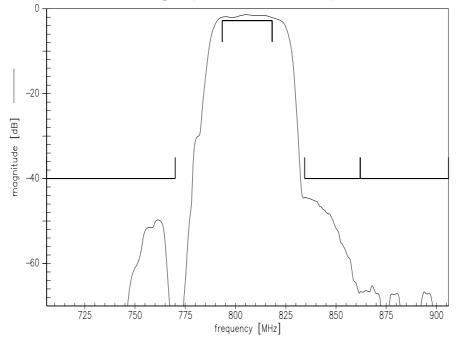


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Data sheet		
Maximum ratings		
Storago tomporaturo rango T	40/+85 °C	

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	continous wave, 55°C , 50000h

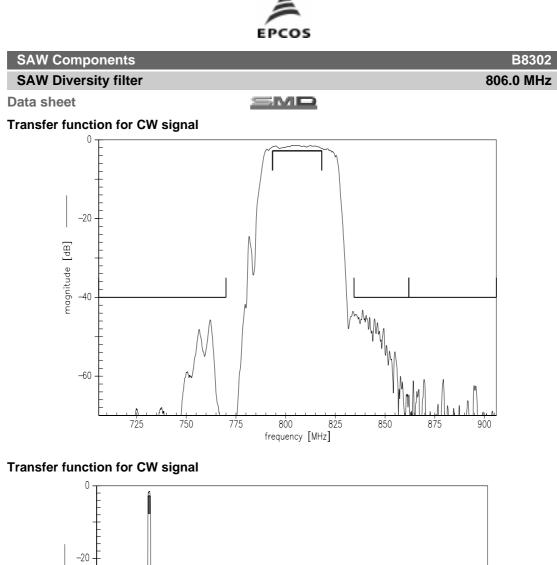
¹⁾ acc. to JESD22-A115A (machine model), 1 negative & 1 positive pulses.

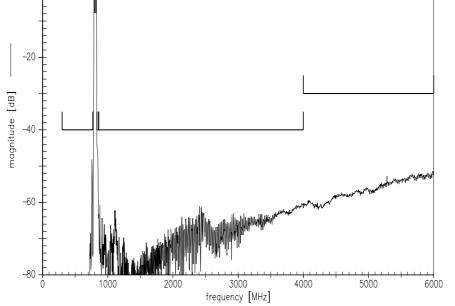
Transfer function for 5MHz LTE signal (Power transfert fonction)



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B8302

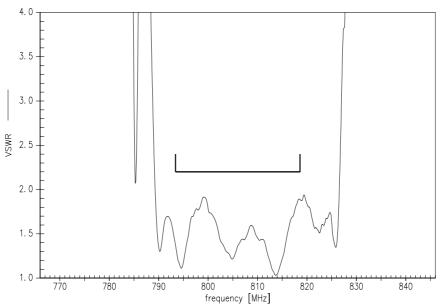
806.0 MHz



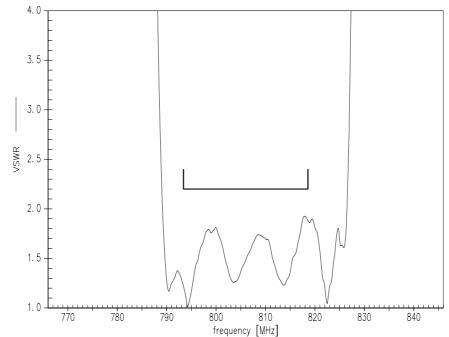
Data sheet

SAW Components

SAW Diversity filter







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SAW Diversity filter Data sheet

SMD

References

Туре	B8302
Ordering code	B39811B8302P810
Marking and package	C61157-A8-A3
Packaging	F61074-V8237-Z000
Date codes	L_1126
S-parameters	B8302_NB_UN.S3P see file header for port/pin assignment table B8302_WB_UN.S3P
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.
Matching coilss	See Inductor pdf-catalog <u>http://www.tdk.co.jp/tefe02/coil.htm#aname1</u> and Data Library for circuit simulation <u>http://www.tdk.co.jp/etvcl/index.htm</u>

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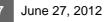
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