

SAW Components

SAW Tx filter

Cellular / WCDMA Band V

Series/type: B9425

Ordering code: B39841B9425M410

Date: May 11, 2006

Version: 2.0

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SAW Components B9425
SAW Tx filter 836.5 MHz

Data Sheet



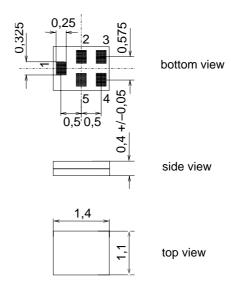
Application

- Low-loss RF filter for mobile telephone Cellular systems, transmit path (TX)
- Impedance 50 Ω input and output
- Unbalanced / unbalanced operation
- Very high RX suppression
- Usable passband 25 MHz



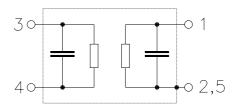
Features

- Package size 1.4 x1.1 x 0.4 mm³
- Package code QCS5I
- RoHS compatible
- Approximate weight 0.003 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)



Pin configuration

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





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=MD

Characteristics

= -30 °C to +85 °C Temperature range for specification:

Terminating source impedance: 50Ω Terminating load impedance: 50Ω

					min.	typ. @ 25 °C	max.	
Center frequency				f _C		836.5	_	MHz
Maximum insertion attenuation			$\alpha_{\sf max}$					
824.0		849.0	MHz			1.7	2.3	dB
Amplitude ripple (p-p)				$\Delta \alpha$				
824.0		849.0	MHz			0.7	1.3	dB
Input VSWR								
824.0		849.0	MHz			1.7	2.0	
Output VSWR								
824.0		849.0	MHz			1.7	2.0	
Attenuation				α				
0.0		779.0	MHz		45	47		dB
779.0		804.0	MHz		40	44		dB
804.0		814.0	MHz		12 ¹⁾	19		dB
859.0		869.0	MHz		72)	14		dB
869.0		894.0	MHz		40	42		dB
894.0		1570.0	MHz		33	35	_	dB
1570.0		2200.0	MHz		35	42		dB
2200.0		6000.0	MHz		33	38		dB

¹⁾ for -15 °C to 80 °C 2) for -15 °C to 80 °C

Maximum ratings

Operable temperature range	Т	-40/+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, 10 pulses
Input Power				
824 - 849 MHz	P_{IN}	16	dBm	source impedance 50 Ω
elsewere	P_{IN}	10	dBm	source impedance 50 Ω

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

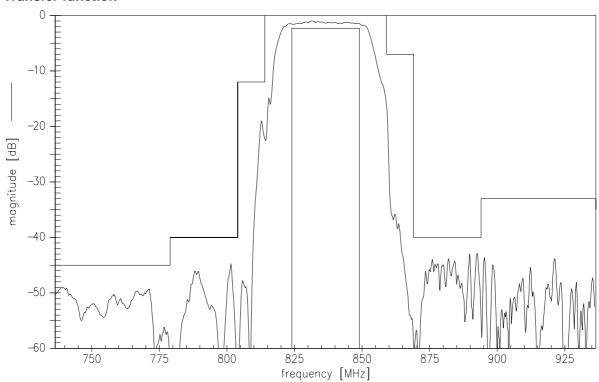


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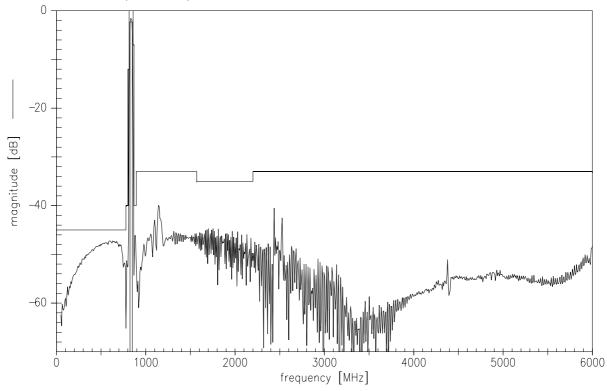
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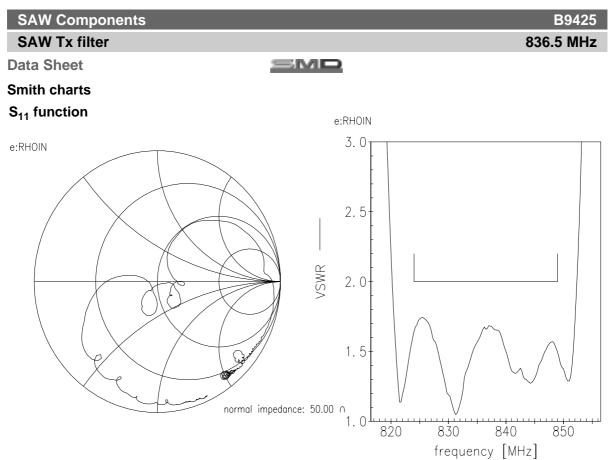
Transfer function



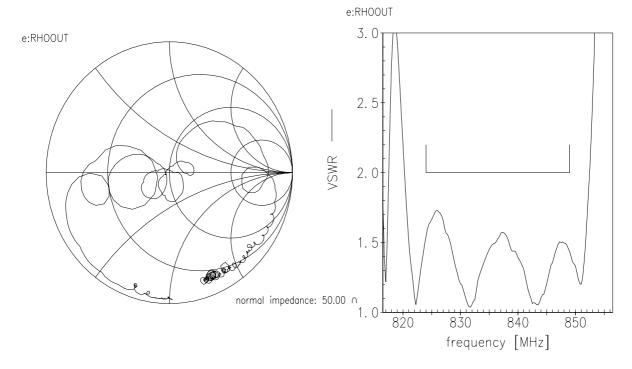
Transfer function (wideband)







S₂₂ function





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References

Туре	B9425			
Ordering code	B39841B9425M410			
Marking and package	C61157-A8-A3			
Packaging	F61074-V8212-Z000			
Date codes	L_1126			
S-parameters	B9425_NB.s2p B9425_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 maximum concentration values for certain hazardous substances in electrical and electronic equipment."			
Moldability	Before using in overmolding environment, please contact your EPCOS sales office.			

For further information please contact your local EPCOS sales office or visit our webpage at www.epcos.com .

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