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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



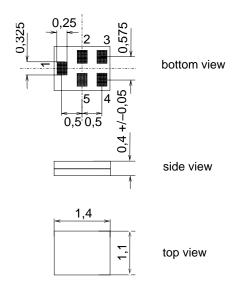
Application

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



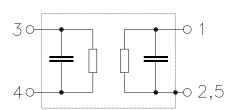
Features

- 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





SAW Components B9425 **SAW Tx filter** 836.5 MHz

Data Sheet

=MD

Characteristics

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

Terminating source impedance: 50Ω Terminating load impedance: $50\,\Omega$

				min.	typ. @ 25 °C	max.	
Center frequency			f _C		836.5		MHz
Maximum insertion attenuation			α_{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							
_	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

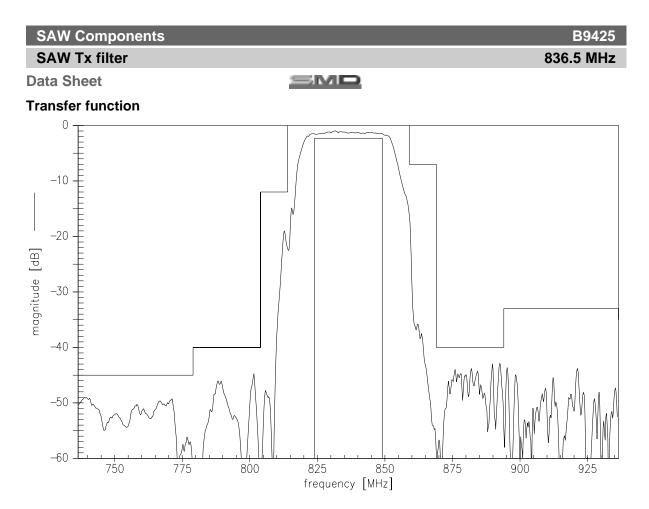
¹⁾ for -15 °C to 80 °C 2) for -15 °C to 80 °C

Maximum ratings

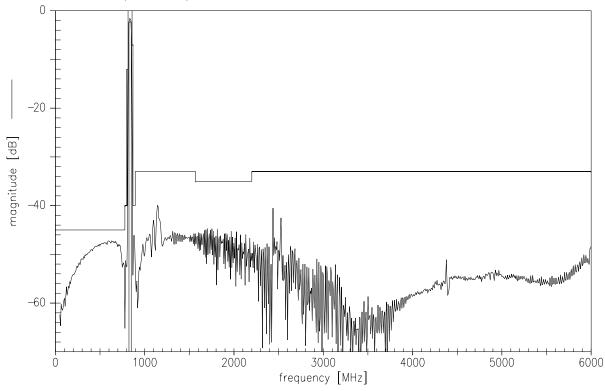
Operable temperature range	Т	-40/+85	°C	
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	5	V	
ESD voltage	V_{ESD}	100 ¹⁾	V	Machine model, 10 pulses
Input Power				
824 - 849 MHz	P_{IN}	16	dBm	source impedance 50 Ω
elsewere	P_{IN}	10	dBm	source impedance 50 Ω

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





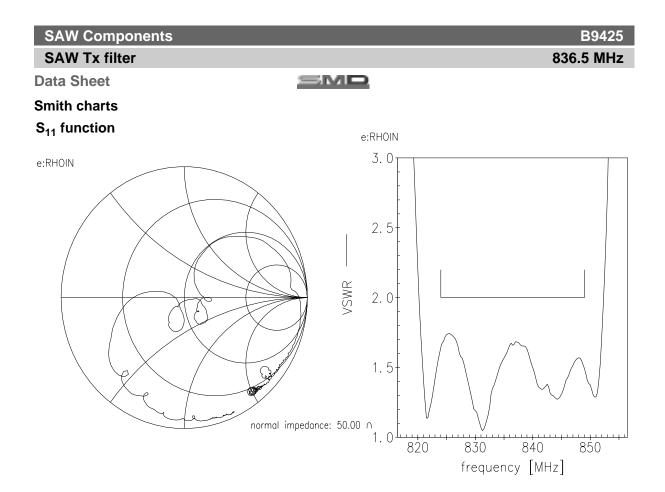
Transfer function (wideband)



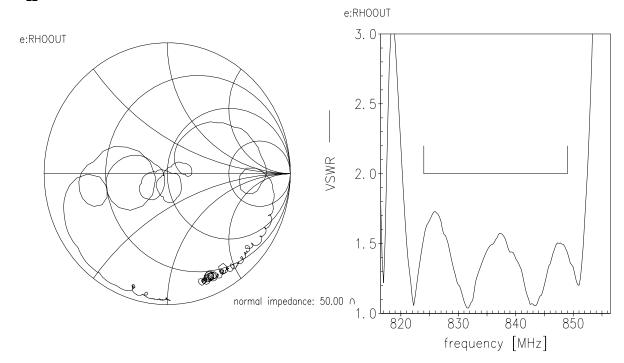
Please read *cautions and warnings and important notes* at the end of this document.







S₂₂ function



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



SAW Components		B9425
SAW Tx filter		836.5 MHz
Data Sheet	SMD	

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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