

SAW Components

SAW Tx Filter

Series/type: Ordering code: B9493 B39711B9493M410

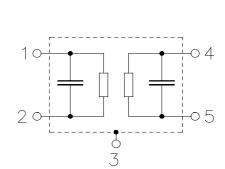
Date: Version: October 03, 2011 2.0

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SAW Components B9493 **SAW Tx Filter** 710.0 MHz Data sheet SMD Application ■ Low-loss RF filter for LTE systems (Tx) Impedance 50Ω input and output Unbalanced / unbalanced operation Usable passband 12MHz Features bottom view Package size 1.4 x1.1 x 0.4 mm³ 5 14 Package code QCS5I 0.50.5 RoHS compatible 0.4 Approximate weight 0.003 g Package for Surface Mount Technology (SMT) side view

- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)
- Moisture Sensitivity Level 3



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top view

1.4

Pin configuration

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

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SAW Components					B9493
SAW Tx Filter					710.0 MHz
Data sheet	SM				
Characteristics					
Temperature range for specification: Terminating source impedance: Terminating load impedance:	$T = -30 \degree C \text{ to } +85 \degree C$ $Z_S = 50 \Omega \text{ (unbalanced)}$ $Z_L = 50 \Omega \text{ (unbalanced)}$				
		min.	typ. @ 25 °C	max.	
Center frequency	f _C		710.0		MHz
Maximum insertion attenuation 704.0 716.0 MHz 704.0 716.0 MHz	α _{max}		1.8 1.8	2.5 ¹⁾ 3.0	dB
Amplitude ripple (p-p) 704.0 716.0 MHz			0.6	2.2	dB
Input VSWR 704.0 716.0 MHz Output VSWR 704.0 716.0 MHz			1.6 1.5	2.0 2.0	
Absolute attenuation 10.0 692.0 MHz 722.0 723.5 MHz 723.5 728.0 MHz 728.0 734.0 MHz 734.0 734.0 MHz 734.0 746.0 MHz 746.0 805.0 MHz 746.0 805.0 MHz 746.0 805.0 MHz 1408.0 1432.0 MHz 1565.0 1607.0 MHz 1565.0 1607.0 MHz 2110.0 2170.0 MHz 2400.0 2484.0 MHz 3000.0 6000.0 MHz 3000.0 6000.0 MHz 3000.0 6000.0 MHz 3000.0 743.5 MHz	α amean	30 5 10 25 36 30 30 25 45 30 40 35 15 10 38	44 15 20 34 40 44 68 55 53 49 45 46 44 20 42		dB dB dB dB dB dB dB dB dB dB dB dB dB d

 ¹⁾ Maximum Insertion Loss in temperature range -10 °C to+70 °C.
²⁾ Mean Attenuation is the integrated value of attenuation in every 5MHz channel over the specified band

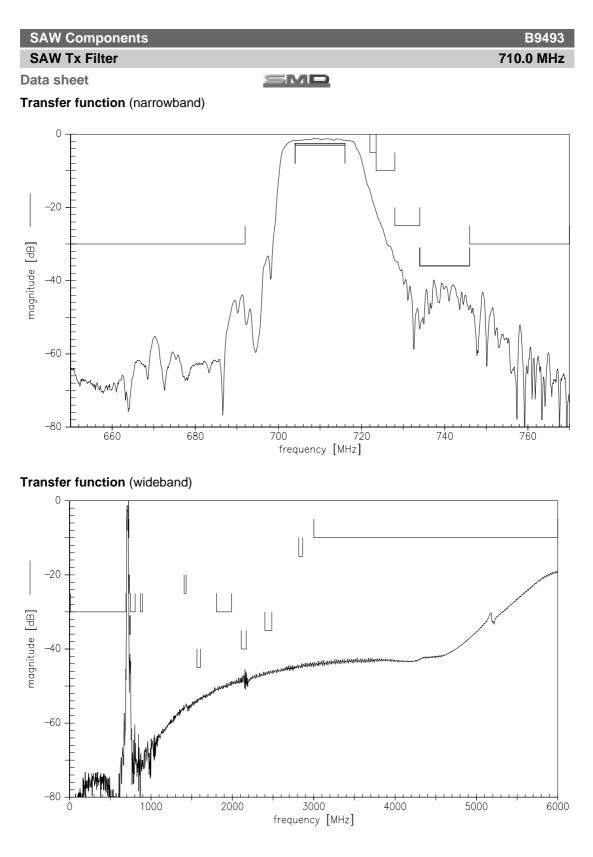
Please read cautions and warnings and important notes at the end of this document.

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Data sheet		\equiv M		
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}	100 ¹⁾	V	machine model, 1 pulse
Input power	P _{IN}	10	dBm	

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

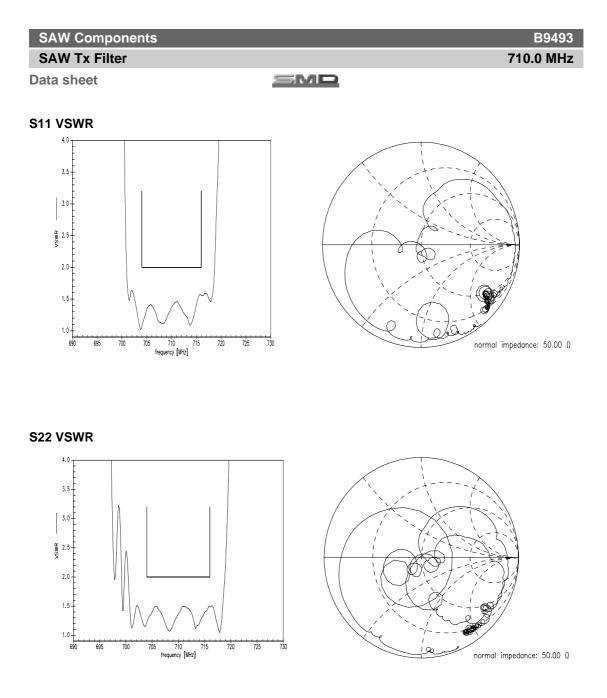
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B9493 710.0 MHz

SAW Tx Filter

SMD

References

Data sheet

Туре	B9493
Ordering code	B39711B9493M410
Marking and package	C61157-A8-A3
Packaging	F61074-V8237-Z000
Date codes	L_1126
S-parameters	B9493_NB.s2p B9493_WB.s2p 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 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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Please read *cautions and warnings and important notes* at the end of this document.

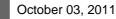


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