

SAW Components

SAW filter

Series/type: Ordering code: B5140 B39202B5140U410

Date: Version: February 26, 2010 2.0

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SAW Components		B5140
SAW filter		2017.50 MHz
Data sheet	SMD	

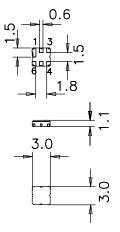
Application

- Low-loss RF ftiler for TD-SCDMA
- Low amplitude ripple
- Usable passband of 15 MHz
- Unbalanced to unbalanced operation
- No matching required for operation at 50 Ω



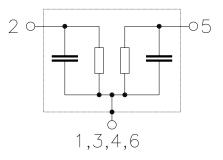
Features

- Package size 3.0 x 3.0 x 1.1 mm³
- Package code DCC6C
- RoHS compatible
- Approximate weight 0.037 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)



Pin configuration

- 2 Input
- 5 Output
- 1,3,4,6 Case grounded



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SAW Components					
SAW filter					2017.5
Data sheet	SM	D			
Characteristics					
Temperature range for specification: Terminating source impedance: Terminating load impedance:	T = Z _S = Z _L =	50 Ω	to +85 °C	;	
		min.	typ. @ 25 °C	max.	
Center frequency	f _C	—	2017.5	—	MHz
Maximum insertion attenuation 2010.0 2025.0 MHz	α _{max}	_	4.2	5.3	dB
Amplitude ripple (p-p) 2010.0 2025.0 MHz	Δα	_	0.6	1.7	dB
VSWR 2010.0 2025.0 MHz	:	_	1.7	1.9	
Attenuation 1700.0 1785.0 MHz 1800.0 1860.0 MHz 1920.0 1970.0 MHz 1920.0 1970.0 MHz 1970.0 1980.0 MHz 1980.0 1980.0 MHz 2035.0 2045.0 MHz 2045.0 2050.0 MHz 2070.0 2070.0 MHz 2170.0 4000.0 MHz		40 40 30 20 3 3 4 6 30 37	43 43 44 33 5 5 13 20 40 40		dB dB dB dB dB dB dB dB dB dB

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Maximum ratings				
Operable temperature range	Т	-40/+85	°C	
Storage temperature range	T _{stg}	-40/+85	°C	
DC voltage	V _{DC}	0	V	
ESD voltage	V _{ESD}	50 ¹⁾	V	machine model, 1 pulse
Input power at				
2010.0 2025.0	P _{IN}	23 ²⁾	dBm	CW, 24hours

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

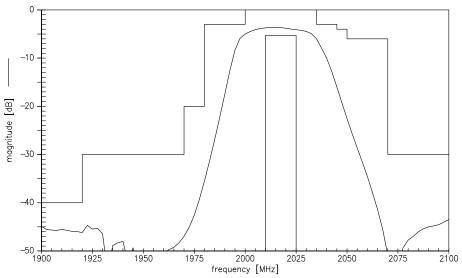
²⁾ Preliminary value, actual value wil be updated after power durability test.

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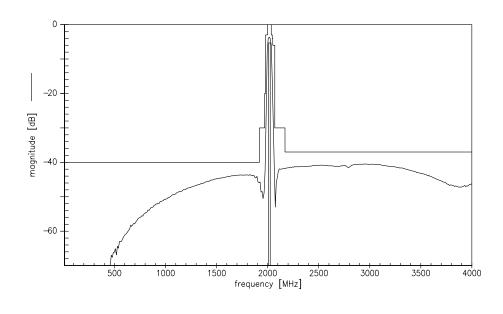
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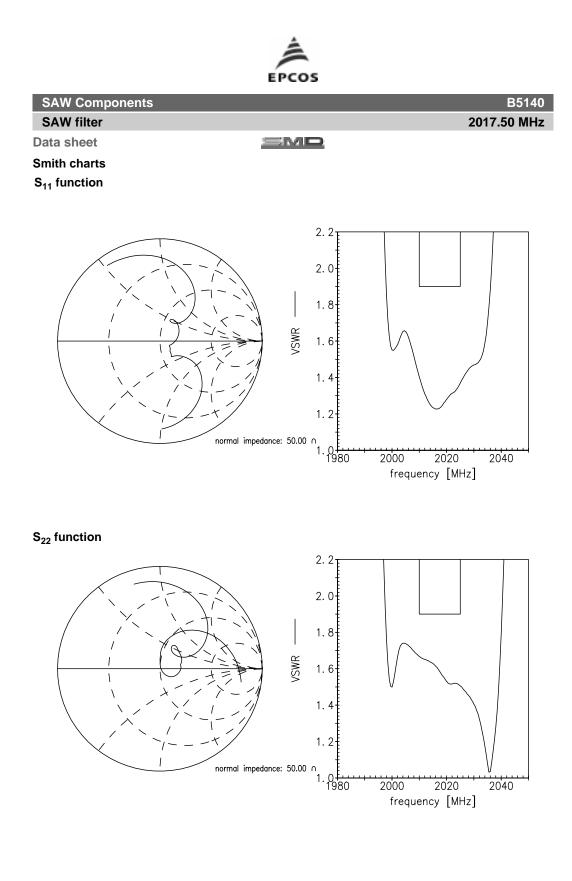


Transfer function (wideband)



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Data sheet	

References

Туре	B5140
Ordering code	B39202B5140U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B5140_NB.s2p B5140_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."

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