

SAW Components

SAW filter

Series/type: Ordering code:

B7750 B39212B7750C810

Date: Version: September 11, 2008 2.0

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SAW Components	B7750
SAW filter	2140.00 MHz
Data sheet	

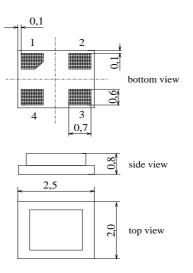
Application

- RF filter for mobile telephone UMTS systems, receive path
- Low insertion loss, low amplitude ripple
- Usable passband 60 MHz



Features

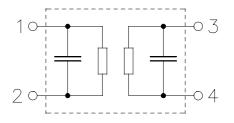
- Package size 2.5 x2.0 x 0.8 mm³
- Package code DCS4D
- RoHS compatible
- Approximate weight 0.012 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)



Pin configuration

1	Input
	input

- 3 Output
- 2,4 Ground



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SAW Components						
SAW filter						2140.0
Data sheet		SM				
Characteristics						
Temperature range for specification:	:	Т =	-20 to	+85 °C		
Terminating source impedance:		Z _S =	50 Ω			
Terminating load impedance:		Z _L =	50 Ω			
			min.	typ.	max.	
				@ 25 °C		
Center frequency		f _C	—	2140.0		MHz
Maximum insertion attenuation		α_{max}				
2110.0 2170.0	MHz	max		2.6	2.8	dB
Amplitude ripple (p-p)		Δα				
2110.0 2170.0	MHz		_	0.8	1.0	dB
Input VSWR					-	
2110.0 2170.0	MHz			2.2	2.4	
Output VSWR						
2110.0 2170.0	MHz			2.2	2.4	
Absolute Attenuation		α				
0.0 1500.0	MHz		40	42	_	dB
1500.0 1880.0	MHz		35	40	—	dB
1920.0 1980.0	MHz		34	36	—	dB
2025.0 2050.0	MHz		20	25	_	dB
2205.0 2265.0	MHz		10	20	—	dB
2230.0 2260.0	MHz		22	24	—	dB
2300.0 2360.0 2490.0 2550.0	MHz MHz		33 37	38 43		dB dB
2490.0 2550.0 2870.0 2930.0	MHz		37	43 35	_	dВ
4000.0 6000.0	MHz		20	31	_	dB
			20	51		

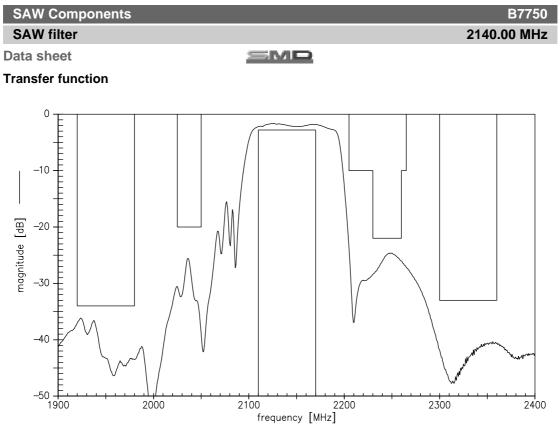


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Maximum ratings				
Operable temperature range	Т	-20/+85	°C	
Storage temperature range	T _{stg}	-40/+85	°C	
DC voltage	V _{DC}	3	V	
ESD voltage	V _{ESD}	50 ¹⁾	V	machine model, 1 pulse
Input power max				
	P _{IN}	13	dBm	source and load impedance 50Ω

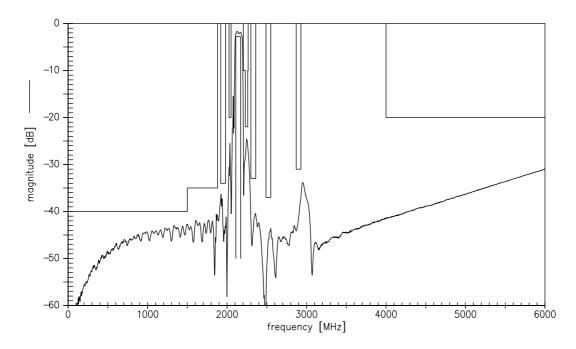
¹⁾ acc. to JESD22-A115A (machine model), 1 negative & 1 positive pulse.

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Transfer function (wideband)

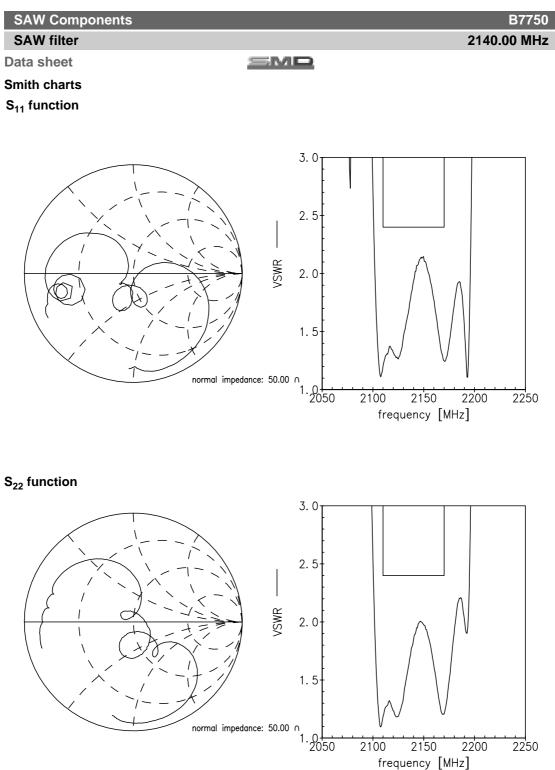


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SAW filter Data sheet

SMD

References

Туре	B7750
Ordering code	B39212B7750C810
Marking and package	C61157-A7-A118
Packaging	F61074-V8153-Z000
Date codes	L_1126
S-parameters	B7750_NB.s3p B7750_WB.s3p 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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Published by EPCOS AG

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