

SAW Components

SAW filter

RF Base Station

Series/type: B5116

Ordering code: B39751B5116U410

Date: May 18, 2009

Version: 2.0

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SAW Components B5116

SAW filter 751.50 MHz

Data sheet



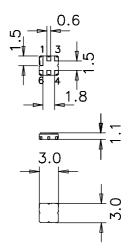
Application

- RF filter for base-station
- Unbalanced to unbalanced operation
- Low amplitude ripple
- Usable passband 11 MHz
- No matching required for operation at 50 Ω



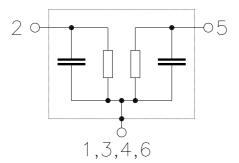
Features

- 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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Characteristics

Temperature range for specification: $T = -25 \text{ to } 85 \text{ }^{\circ}\text{C}$

Terminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 50 \Omega$

		min.	typ. @ 25 °C	max.	
Center frequency	f _C	_	751.50		MHz
Maximum insertion attenuation $f_{C}~\pm 5$	α _{max} i.5 MHz	_	1.5	2.2	dB
Amplitude ripple (p-p) $f_C \pm 5$	Δα 5.5 MHz		0.5	1.2	dB
Group delay ripple (p-p) $f_{\mathbb{C}} \pm 5$	Δτ 5.5 MHz	_	48	70	ns
Mean value of absolute group de f $_{ m C}~\pm 5$	e lay τ i.5 MHz	0	35	70	ns
Return loss $f_C \pm 5$	5.5 MHz	10	13		dB
Attenuation 776 MHz 78	α 37 MHz	15	30	_	dB
788 MHz 80 806 MHz 84	05 MHz 19 MHz	25 25	30 38	_	dB dB



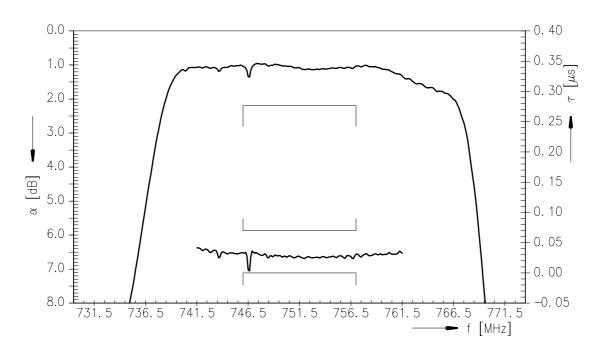
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Data sheet				
Maximum ratings				
Operable temperature range	Т	-40/+85	°C	
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	0	V	
ESD voltage	V_{ESD}	100 ¹⁾	V	machine model, 1 pulse
Input power				
746.0 757.0	P_{IN}	15	dBm	CW

 $^{^{1)}}$ acc. to J-STD22A-0115A (machine model, 1 pulse +/-).

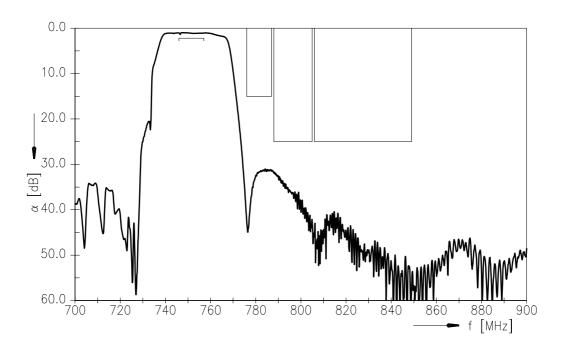




Transfer function



Transfer function (wideband)



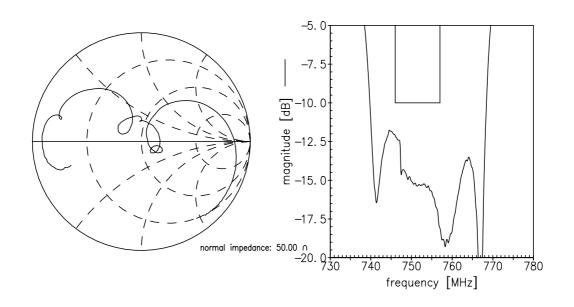


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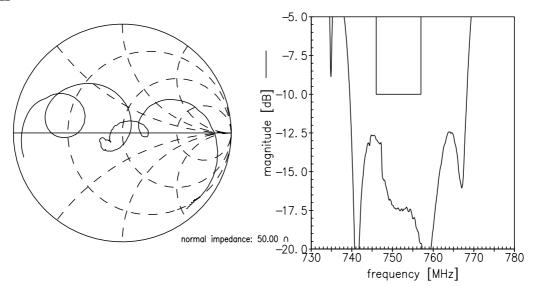
Data sheet

Smith charts

S₁₁ function



S₂₂ function





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References

Туре	B5116
Ordering code	B39751B5116U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B5116_NB.s2p B5116_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 maximum concentration values for certain hazardous substances in electrical and electronic equipment."

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

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