

SAW LO filter 1047.65 MHz

Data sheet



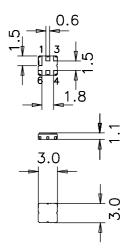
Application

- Low-loss LO filter for iDEN phone
- Usable passband 6 MHz
- No matching required for operation at 50 Ω



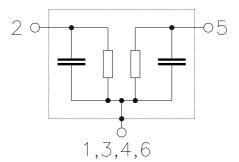
Features

- 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 unbalanced
- 5 Output unbalanced
- 1,3,4,6 Case grounded





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 \equiv MD

Characteristics

Temperature range for specification: T = $25 \, ^{\circ}\text{C} \pm 2 \, ^{\circ}\text{C}$

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

	min.	typ. @ 25 °C	max.	
Center frequency f _C	_	1047.65	_	MHz
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	_	1.65	2.50	dB
Amplitude ripple (p-p) Δα 1044.65 1050.65 MHz	_	0.1	0.6	dB
Return loss(Input and Output) 1044.65 1050.65 MHz	14.0	17.0	_	dB
Attenuation α 0.1 935.0 MHz 935.0 941.0 MHz 1154.3 1160.3 MHz 1160.3 2200.0 MHz 2200.0 3000.0 MHz	40 40 40 25 23	53 53 50 42 38	_ _ _ _	dB dB dB dB



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Characteristics

Temperature range for specification: $T = -40 \,^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$

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

		min.	typ. @ 25 °C	max.	
Center frequency	f _C	_	1047.65	_	MHz
Maximum insertion attenuation 1044.65 1050.65 MHz	α_{max}	_	1.8	2.5	dB
Amplitude ripple (p-p) 1044.65 1050.65 MHz	Δα	_	0.3	1.0	dB
Return loss(Input and Output) 1044.65 1050.65 MHz		14.0	16.0	_	dB
0.1 935.0 MHz 935.0 941.0 MHz 1154.3 1160.3 MHz 1160.3 2200.0 MHz 2200.0 3000.0 MHz	α	40 40 40 25 23	53 53 50 42 38	_ _ _ _	dB dB dB dB



SAW Components		B3852
SAW LO filter		1047.65 MHz
Data sheet	SMD	

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}	1001)	V	machine model, 1 pulse
Input power at				
1044.65 1050.65	P_{IN}	0	dBm	source impedance 50 Ω

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



SAW Components

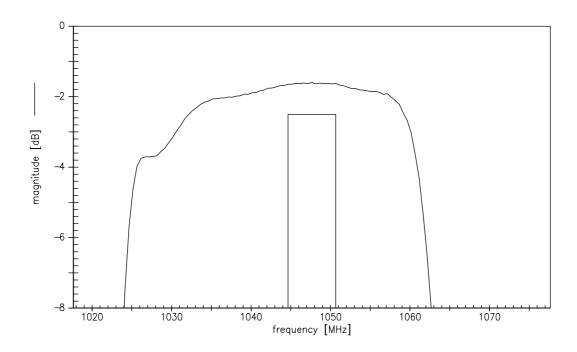
SAW LO filter

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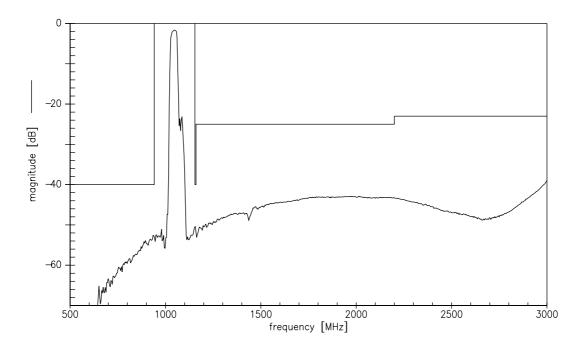
B3852

1047.65 MHz

Transfer function



Transfer function (wideband)



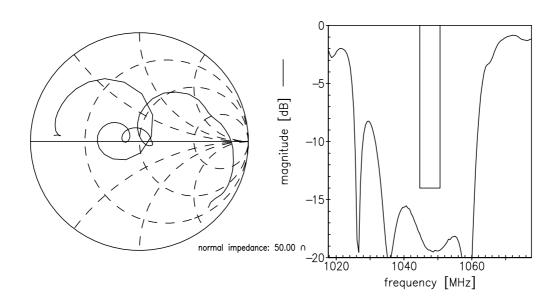


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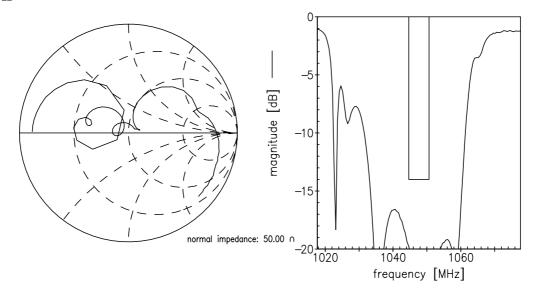
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Smith charts

S₁₁ function



S₂₂ function





SAW Components	B3852
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References

Туре	B3852
Ordering code	B39102B3852U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B3852_NB.s2p B3852_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."

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

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