



SAW Components

SAW RF low loss filter

DAB

Series/type:	B1664
Ordering code:	B39152-B1664-U410
Date:	September 09, 2010
Version:	2.0

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1472.0 MHz

Data sheet



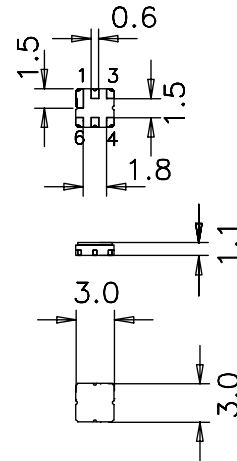
Application

- Low-loss RF filter for digital radio
- Unbalanced to unbalanced operation
- Usable passband 40.0 MHz



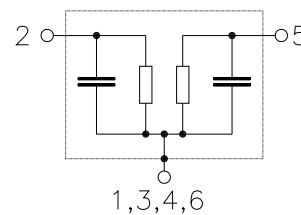
Features

- Package size 3.0 x 3.0 x 1.1 mm³
- Maximum height of 1.225 mm
- Package code DCC6C
- RoHS compatible
- Approximate weight 0.037 g
- Package for **Surface Mount Technology (SMT)**
- Ni, gold-plated terminals
- AEC-Q200 qualified component family
- Electrostatic Sensitive Device (ESD)



Pin configuration

- 2 Input unbalanced
- 5 Output unbalanced
- 1,3,4,6 To be grounded



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



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Characteristics

Operating temperature range: $T = -40\text{ °C} \dots +85\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

		min.	typ. @25°C	max.	
Center frequency	f_N	—	1472.0	—	MHz
Maximum insertion attenuation	α_{max}	—	1.6	2.6	dB
1452.00 ...1492.00 MHz					
Amplitude ripple in passband (p-p)	$\Delta\alpha$	—	0.8	1.6	dB
1452.00 ...1492.00 MHz					
Input VSWR		—	1.7	2.1	
Output VSWR		—	1.7	2.1	
Attenuation	α				dB
500.00 ...1262.00 MHz		34.0	39.0	—	
1262.00 ...1382.00 MHz		25.0	31.0	—	
1382.00 ...1398.00 MHz		25.0	35.0	—	
1398.00 ...1414.00 MHz		27.0	39.0	—	
1547.00 ...1580.00 MHz		21.0	25.0	—	
1580.00 ...2200.00 MHz		25.0	30.0	—	
Group delay ripple (p-p)	$\Delta\tau$	—	15	—	ns
1452.00 ...1492.00 MHz					



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Characteristics

Maximum ratings

Operable temperature range	T	-40 / +85	°C	
Storage temperature range	T _{stg}	-40 / +85	°C	
DC voltage	V _{DC}	0	V	
ESD voltage	V _{ESD}	125 ¹⁾	V	machine model, 1 pulse
	V _{ESD}	225 ²⁾	V	human body model, 1 pulse
Input power at				
1452.00... 1492.00 MHz	P _{IN}	10	dBm	source impedance 50 Ω

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

2) acc. to JESD22-A114F (human body model), 1 negative & 1 positive pulse.



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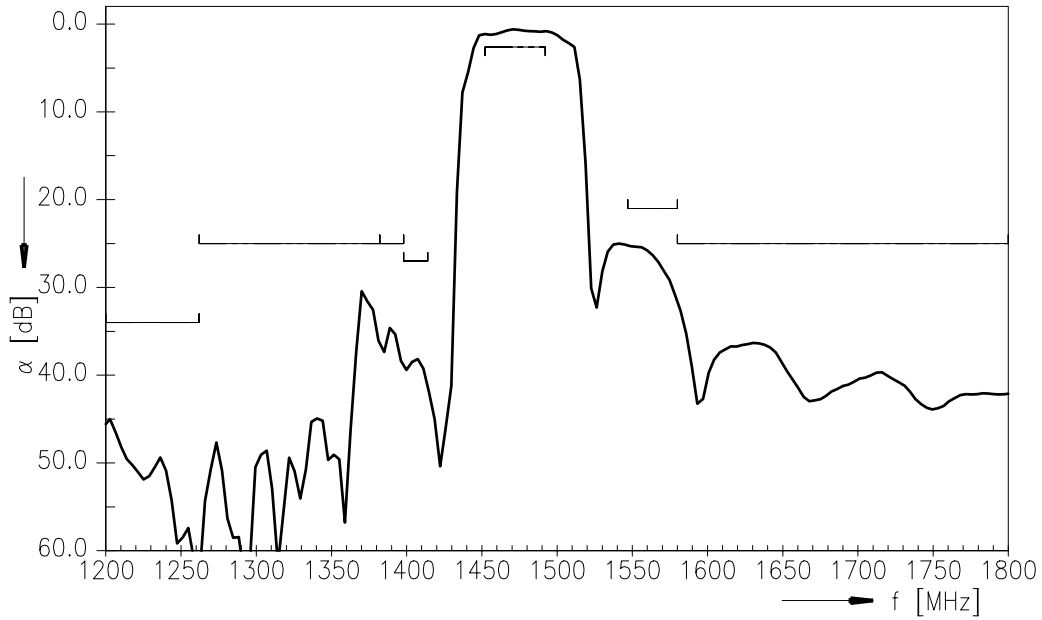
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1472.0 MHz

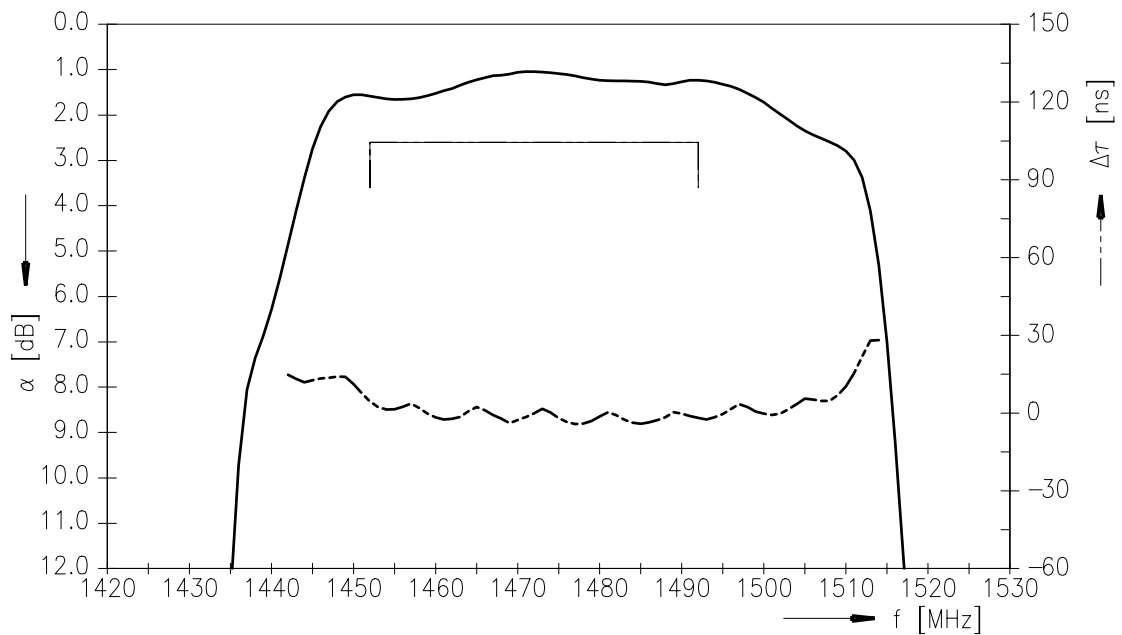
Data sheet



Transfer function



Transfer function (narrowband)



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Data sheet



References

Type	B1664
Ordering code	B39152-B1664-U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B1664_NB.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."
Matching coils	See Inductor pdf-catalog http://www.tdk.co.jp/tefe02/coil.htm#aname1 and Data Library for circuit simulation http://www.tdk.co.jp/etvcl/index.htm

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

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