



SAW Components

SAW filter

Digital radio

Series/type:	B8755
Ordering code:	B39152-B8755-M410
Date:	March 14, 2008
Version:	2.0

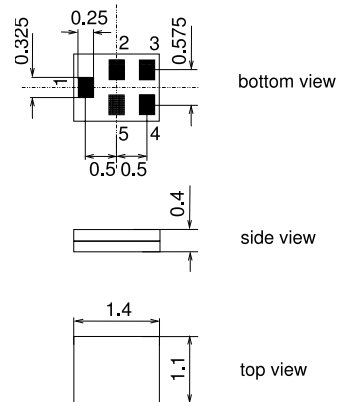
Application

- Low-loss RF filter for digital radio
- Unbalanced to unbalanced operation
- Very low insertion attenuation
- Low amplitude ripple
- Usable passband 40 MHz



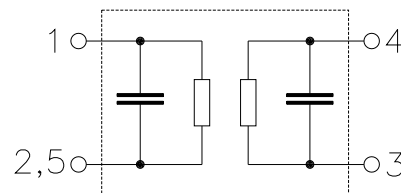
Features

- Package size 1.4 x 1.1 x 0.4 mm³
- Package code QCS5I
- Maximum package height of 0.45 mm
- RoHS compatible
- Approximate weight 0.003 g
- Package for **Surface Mount Technology (SMT)**
- Ni, gold-plated terminals
- **Electrostatic Sensitive Device (ESD)**



Pin configuration

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





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1472.00 MHz

Data sheet



Characteristics

Temperature range for specification: $T = -10\text{ °C to }+70\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

		min.	typ. @ 25 °C	max.	
Nominal frequency	f_N	—	1472.00	—	MHz
Maximum insertion attenuation	α_{max}				
1452.0 ... 1492.0 MHz		—	1.7	2.0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
1452.0 ... 1492.0 MHz		—	0.8	1.0	dB
Input return loss		9.0	10.0	—	dB
Output return loss		9.0	10.5	—	dB
Attenuation	α				
880.0 ... 915.0 MHz		30	38	—	dB
1410.0 MHz		20	42	—	dB
1530.0 ... 1570.0 MHz		20	27	—	dB
1575.0 MHz		30	36	—	dB
1710.0 ... 1785.0 MHz		30	36	—	dB
1920.0 ... 1980.0 MHz		30	46	—	dB
2400.0 ... 2500.0 MHz		30	38	—	dB
Group delay ripple (p-p)					
1452.0 ... 1492.0 MHz		—	12	25	ns



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Maximum ratings

Operable temperature range	T	-40/+85	°C	
Storage temperature range	T _{stg}	-40/+85	°C	
DC voltage	V _{DC}	4	V	
ESD voltage	V _{ESD}	50 ¹⁾	V	machine model, 1 pulses
Input power at 1452 MHz ... 1492 MHz	P _{IN}	0	dBm	source impedance 50 Ω

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



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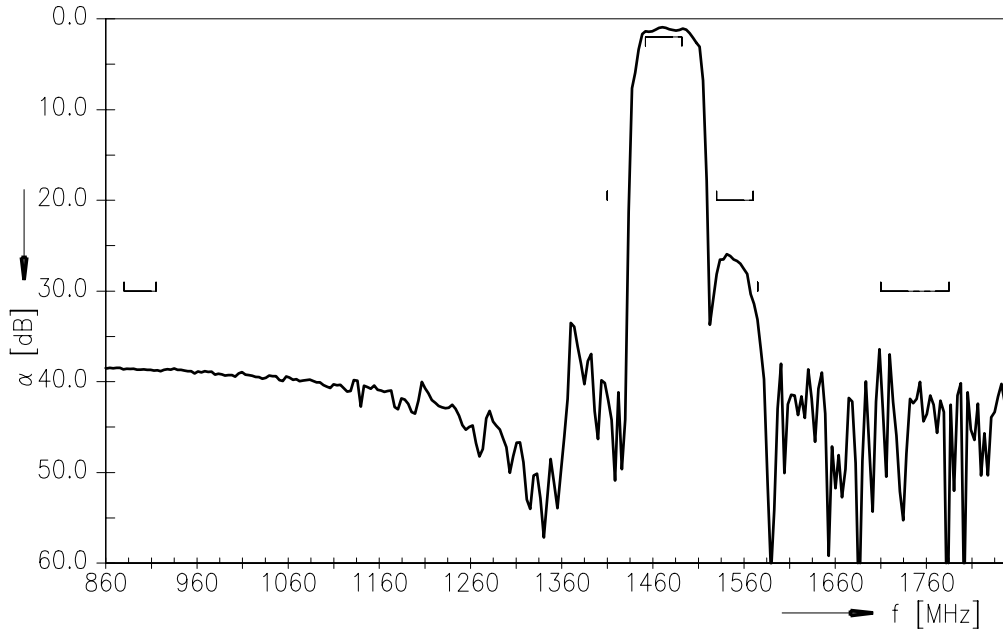
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1472.00 MHz

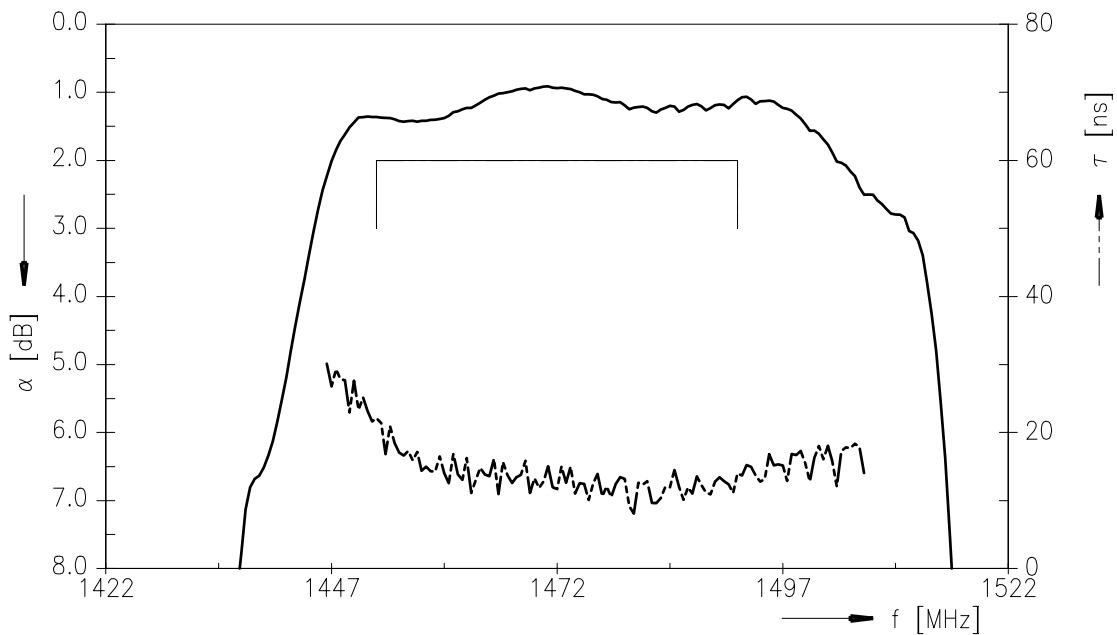
Data sheet



Transfer function



Transfer function (narrowband)



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



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SAW filter **1472.00 MHz**

Data sheet



References

Type	B8755
Ordering code	B39152-B8755-M410
Marking and package	C61157-A8-A3
Packaging	F61074-V8212-Z000
Date codes	L_1126
S-parameters	B8755_NB.s2p B8755_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."
Moldability	Before using in overmolding environment, please contact your EPCOS sales office.

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

**Published by EPCOS AG
Surface Acoustic Wave Components Division
P.O. Box 80 17 09, 81617 Munich, GERMANY**

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



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