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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





RF360 Europe GmbH

A Qualcomm – TDK Joint Venture

SAW Components

SAW RF low loss filter

Satellite CSS

Series/type:	B1675
Ordering code:	B39142B1675B510
Date:	December 10, 2012
Version:	2.0

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SAW Components**B1675****SAW RF low loss filter****1420.0 MHz**

Data sheet

**Revision History: Changes compared to previous iteration issue**

ISSUE	ORIGINATOR	DETAIL SPEC CHANGES	DATE
DGLW74S01			
0.1	HuA	Initial release	01.03.2010
LW74A			
1.0	QuekJ	First sample run release	12.05.2010
LW74C			
1.0	QuekJ	Improvement of CMDR and passband performance	10.01.2011
1.1	HuA	Revision history page included	17.10.2011
2.0	HuA	Mass Production release	10.12.2012

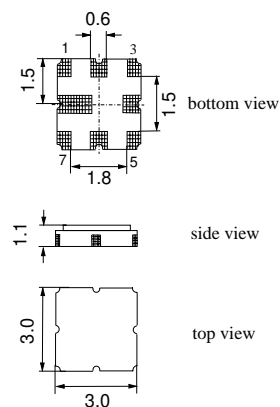
Data sheet


Application

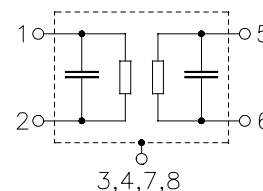
- Low loss RF filter for satellite CSS
- Usable passband 60.0 MHz
- Balanced to balanced operation


Features

- Package size 3.0 x 3.0 x 1.1 mm³
- Maximum height of 1.225 mm
- Package code QCC8F
- RoHS compatible
- Approximate weight 0.037 g
- Package for **Surface Mount Technology (SMT)**
- Ni, gold-plated terminals
- **Electrostatic Sensitive Device (ESD)**


Pin configuration

- 1 Input
- 2 Input
- 5 Output
- 6 Output
- 3,7 To be grounded
- 4,8 Case ground, to be grounded



SAW Components
B1675
SAW RF low loss filter
1420.0 MHz

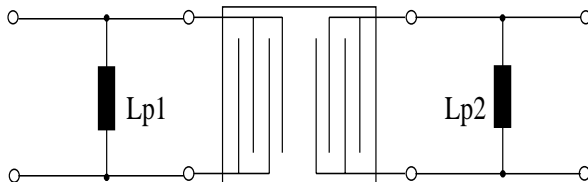
Data sheet


Characteristics

Temperature range for specification: $T = -40\text{ °C to }+85\text{ °C}$
 Terminating source impedance: $Z_S = 150\ \Omega$ (balanced) and matching network
 Terminating load impedance: $Z_L = 150\ \Omega$ (balanced) and matching network

		min.	typ. @ 25 °C	max.	
Nominal frequency	f_N	—	1420.0	—	MHz
Maximum insertion attenuation	α_{\max}	—	4.6	5.5	dB
1390.0 ... 1450.0 MHz					
Pass bandwidth	$B_{1.5\text{ dB}}$	—	68.0	—	MHz
$\alpha_{\text{rel}} \leq 1.5\text{ dB}$					
Amplitude ripple (p-p)	$\Delta\alpha$	—	1.6	2.5	dB
1390.0 ... 1450.0 MHz					
Input return loss		7.4	10.0	—	dB
Output return loss		7.4	11.0	—	dB
Group delay ripple (p-p)	$\Delta\tau$	—	20.0	40.0	ns
1390.0 ... 1450.0 MHz					
CMDR		20.0	27.0	—	dB
1390.0 ... 1450.0 MHz					
Deviation from linear phase (rms)		—	4.0	6.0	°
in any 30 MHz band					
Attenuation	α	40	44	—	dB
50.0 ... 1320.0 MHz		40	44	—	
1530.0 ... 3000.0 MHz		30	49	—	
3000.0 ... 6000.0 MHz					

Data sheet

Matching network (element values depend on PCB layout)


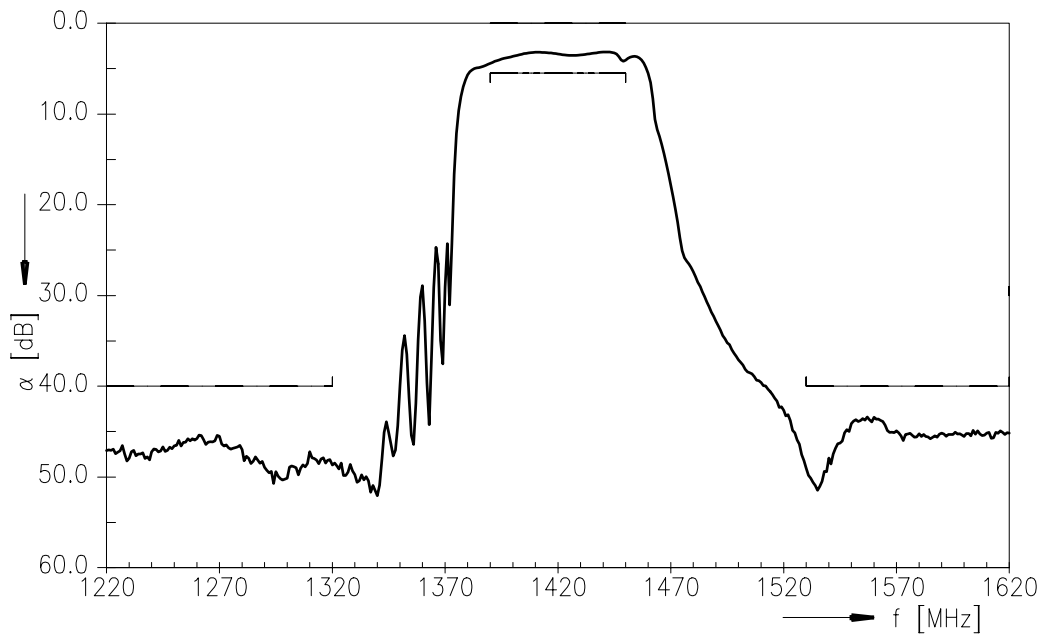
$$L_{p1} = 18 \text{ nH}$$

$$L_{p2} = 20 \text{ nH}$$

Maximum ratings

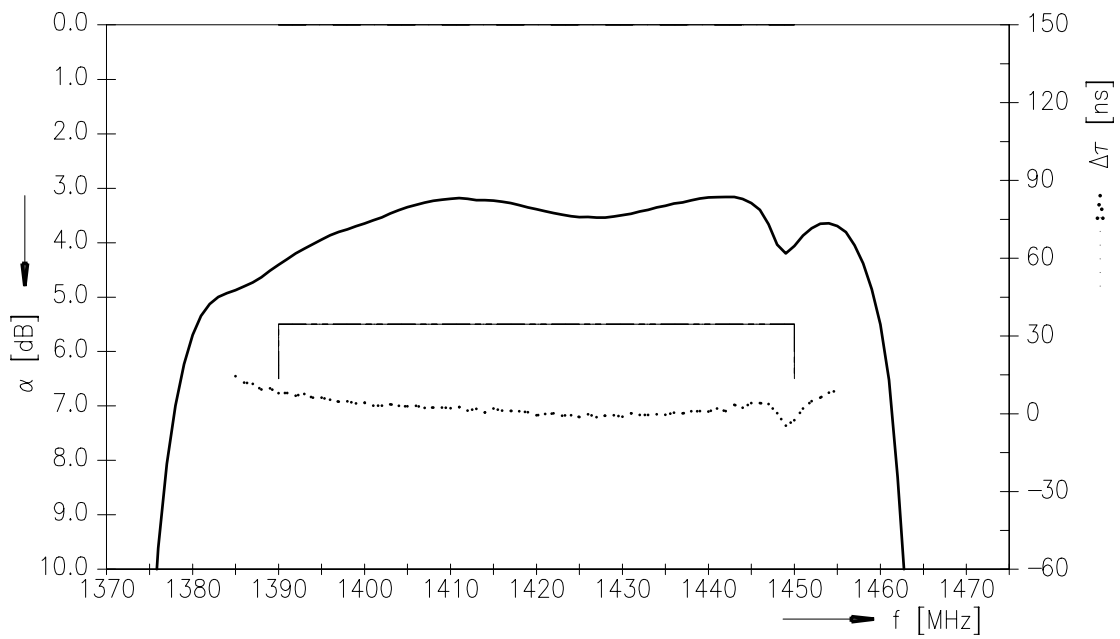
Operable temperature range	T	-40/+85	°C	
Storage temperature range	T _{stg}	-40/+85	°C	
DC voltage	V _{DC}	0	V	
ESD voltage	V _{ESD}	50 ¹⁾	V	machine model, 1 pulse
Input power at 1390.0... 1450.0 MHz	P _{IN}	0	dBm	source impedance 150 Ω

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

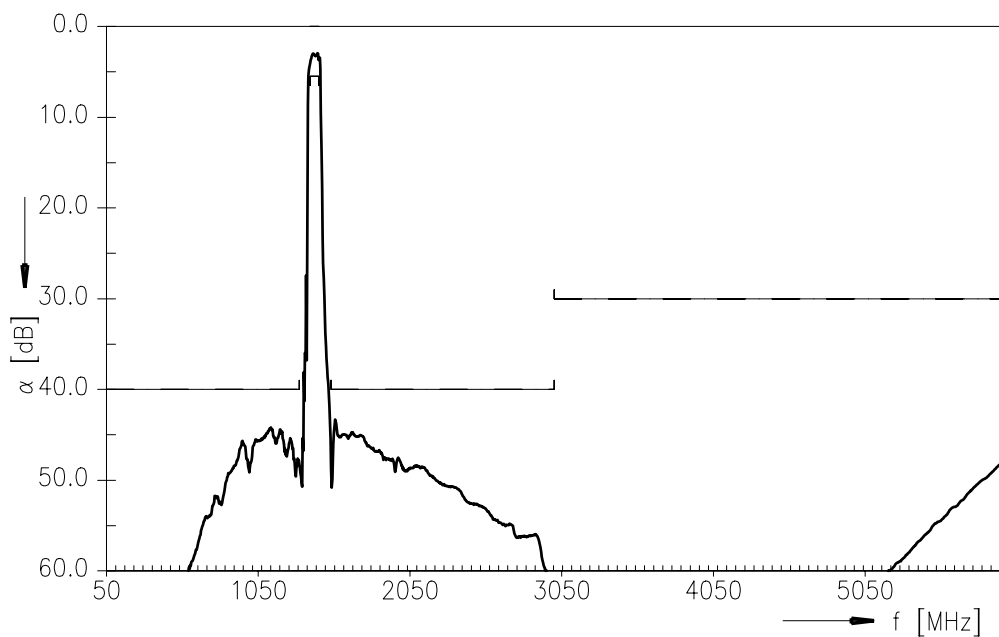
Transfer function S_{dd21}




Transfer function S_{dd21} (passband)



Transfer function S_{dd21} (wideband)



SAW Components	B1675
SAW RF low loss filter	1420.0 MHz

Data sheet



References

Type	B1675
Ordering code	B39142B1675B510
Marking and package	C61157-A7-A72
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B1675_NB.s4p; B1675_WB.s4p
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.
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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