



SAW Components

SAW filter

Double conversion

Series/type:	B1619
Ordering code:	B39172!B1619!U810
Date:	February 11, 2011
Version:	2.1



SAW Components

B1619

SAW filter

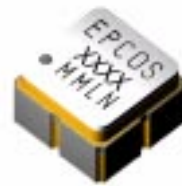
1690.00 MHz

Data sheet



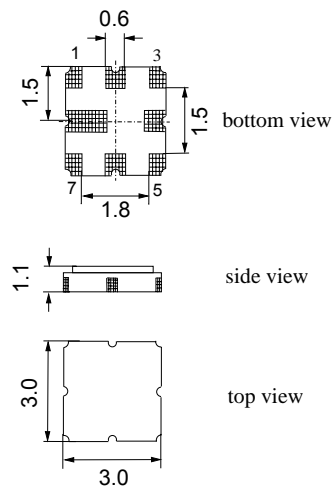
Application

- Low-loss RF filter
- Balanced to balanced operation
- Low group delay ripple



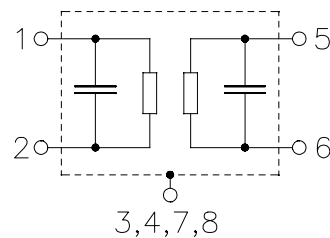
Features

- Package size 3.0 x 3.0 x 1.1 mm³
- Package code QCC8D
- 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





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Characteristics

Operating temperature range:	$T = 0\text{ °C to }+70\text{ °C}$
Terminating source impedance:	$Z_S = 190\ \Omega$
Terminating load impedance:	$Z_L = 190\ \Omega$

		min.	typ. @ 25 °C	max.	
Center frequency	f_C	—	1690.00	—	MHz
Maximum insertion attenuation	α_{\max}	—	4.00	4.50	dB
1681.20 ... 1698.80 MHz					
Amplitude ripple in any 6.5 MHz band		—	0.50	1.00	dB
1681.20 ... 1698.80 MHz					
Pass bandwidth		—	33.00	—	MHz
$\alpha_{\text{rel}} \leq 3\text{ dB}$		—	40.00	—	MHz
$\alpha_{\text{rel}} \leq 10\text{ dB}$					
Attenuation	α	50.00	53.00	—	dB
1577.00 ... 1626.00 MHz					
Group delay ripple (p-p)		—	15.00	—	ns
1681.20 ... 1698.80 MHz					

Maximum ratings

Operable temperature range	T	−45/+85	°C	
Storage temperature range	T_{stg}	−45/+85	°C	
DC voltage	V_{DC}	0	V	
Source power	P_S	0	dBm	source impedance 190 Ω



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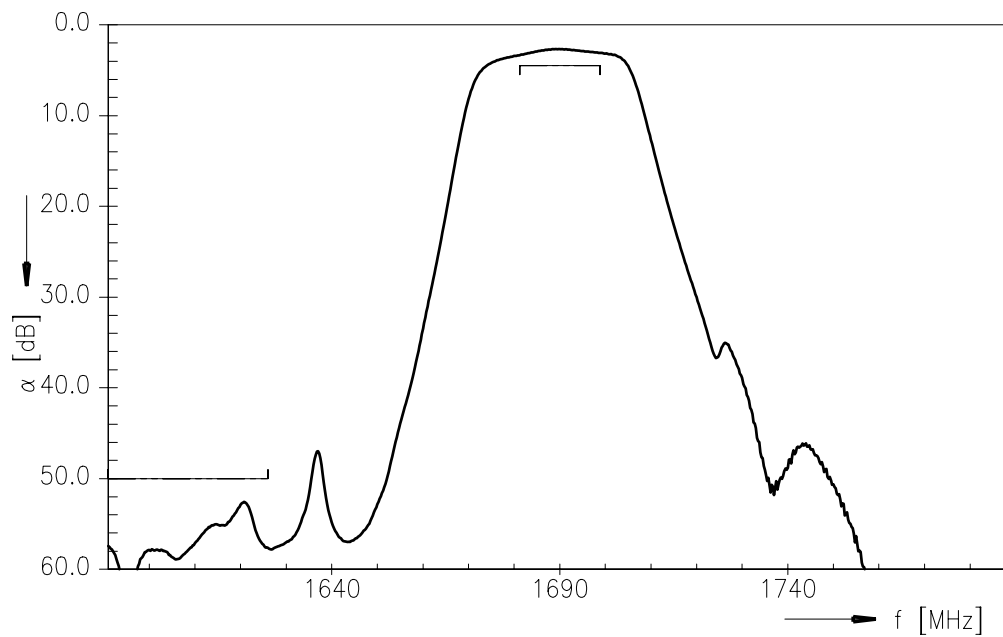
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1690.00 MHz

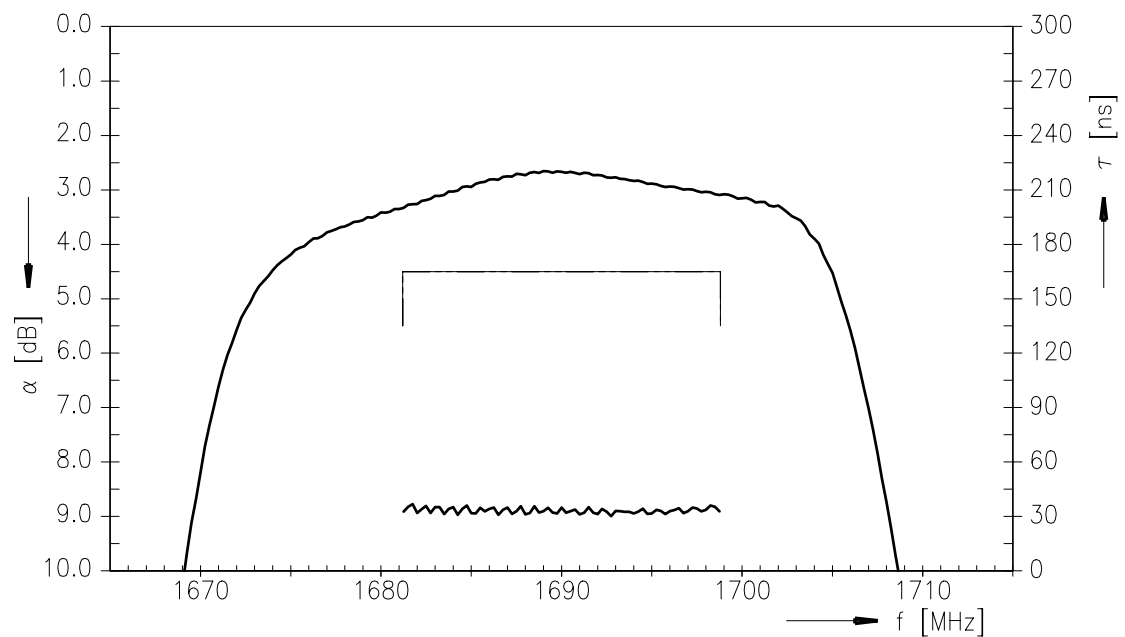
Data sheet

SMD

Transfer function



Transfer function



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

**SAW Components****B1619****SAW filter****1690.00 MHz**

Data sheet

**References**

Type	B1619
Ordering code	B39172-B1619-U810
Marking and package	C61157-A7-A72
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B1619_NB_UN.s4p B1619_WB_UN.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."

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

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