



RF360 Europe GmbH

A Qualcomm – TDK Joint Venture

## SAW Components

### SAW filter

Double conversion

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

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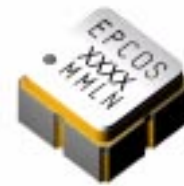
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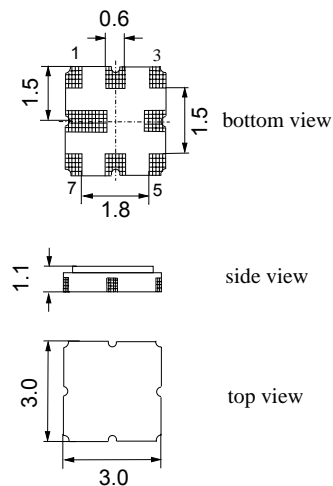
Data sheet

**Application**

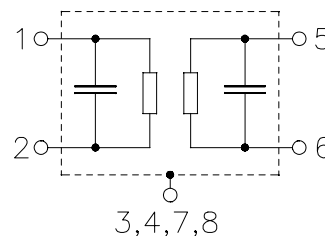
- Low-loss RF filter
- Balanced to balanced operation
- Low group delay ripple


**Features**

- Package size 3.0 x 3.0 x 1.1 mm<sup>3</sup>
- 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



**SAW Components**
**B1619**
**SAW filter**
**1690.00 MHz**
**Data sheet**

**Characteristics**

Operating temperature range:	T = 0 °C to +70 °C
Terminating source impedance:	Z <sub>S</sub> = 190 Ω
Terminating load impedance:	Z <sub>L</sub> = 190 Ω

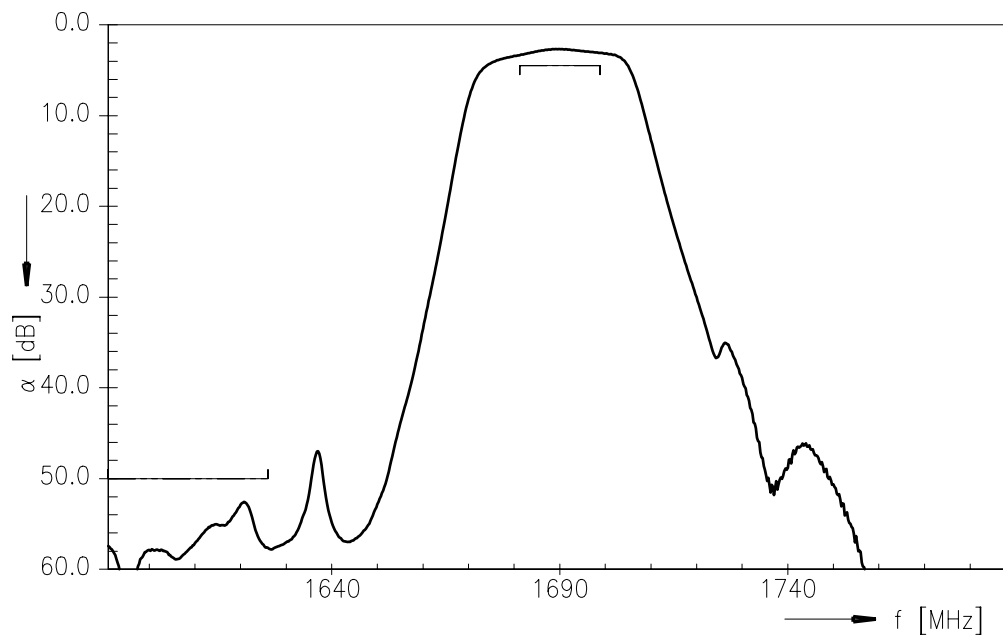
		min.	typ. @ 25 °C	max.	
<b>Center frequency</b>	f <sub>C</sub>	—	1690.00	—	MHz
<b>Maximum insertion attenuation</b>	α <sub>max</sub>	—	4.00	4.50	dB
1681.20 ... 1698.80 MHz					
<b>Amplitude ripple in any 6.5 MHz band</b>		—	0.50	1.00	dB
1681.20 ... 1698.80 MHz					
<b>Pass bandwidth</b>		—	33.00	—	MHz
α <sub>rel</sub> ≤ 3 dB		—	40.00	—	
α <sub>rel</sub> ≤ 10 dB					
<b>Attenuation</b>	α	50.00	53.00	—	dB
1577.00 ... 1626.00 MHz					
<b>Group delay ripple (p-p)</b>		—	15.00	—	ns
1681.20 ... 1698.80 MHz					

**Maximum ratings**

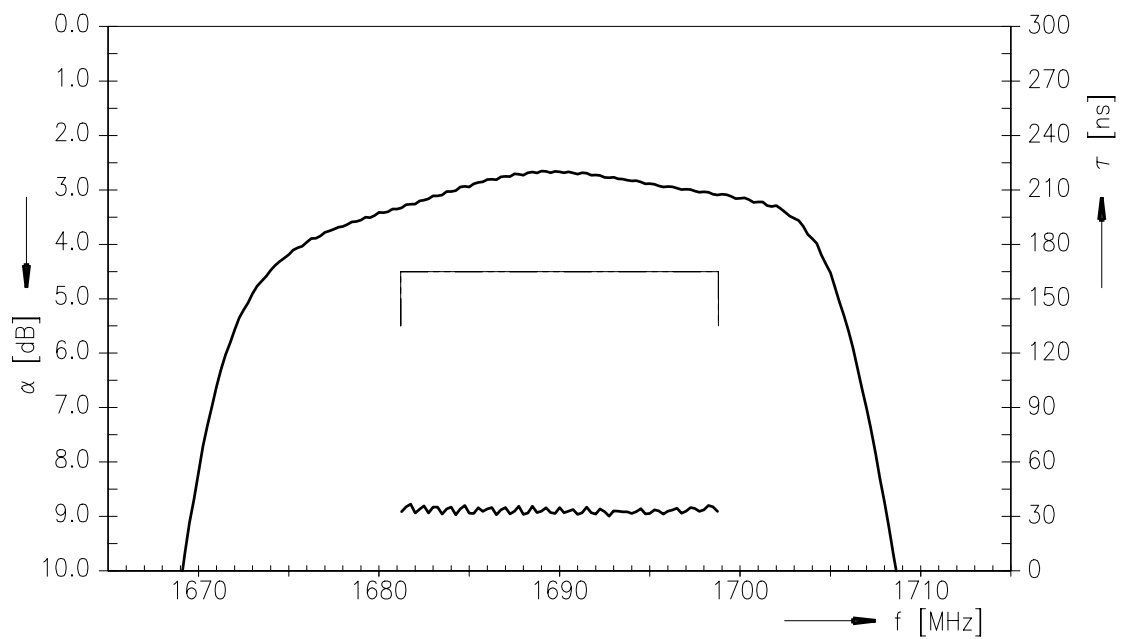
Operable temperature range	T	−45/+85	°C	
Storage temperature range	T <sub>stg</sub>	−45/+85	°C	
DC voltage	V <sub>DC</sub>	0	V	
Source power	P <sub>S</sub>	0	dBm	source impedance 190 Ω



Transfer function



Transfer function



<b>SAW Components</b>	<b>B1619</b>
<b>SAW filter</b>	<b>1690.00 MHz</b>

Data sheet



## References

<b>Type</b>	B1619
<b>Ordering code</b>	B39172-B1619-U810
<b>Marking and package</b>	C61157-A7-A72
<b>Packaging</b>	F61074-V8168-Z000
<b>Date codes</b>	L_1126
<b>S-parameters</b>	B1619_NB_UN.s4p B1619_WB_UN.s4p
<b>Soldering profile</b>	S_6001
<b>RoHS compatible</b>	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."

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