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## SAW Components

SAW RF low loss filter  
Satellite BTS

**Series/type:** B1617

**Ordering code:** B39122B1617U810

**Date:** December 15, 2006

**Version:** 2.1

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## SAW Components

B1617

### SAW RF low loss filter

1178.12 MHz

#### Data Sheet



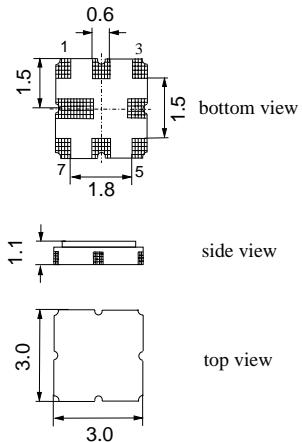
#### Application

- Low loss RF filter for satellite BTS
- Usable passband 40.0 MHz
- Low insertion attenuation
- Low amplitude ripple
- Low group delay ripple
- Balanced to balanced operation
- No matching network required for operation at  $150 \Omega$



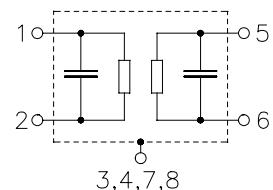
#### Features

- Package size  $3.0 \times 3.0 \times 1.1 \text{ mm}^3$
- Maximum height of 1.225mm
- 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, to be grounded



**SAW Components****B1617****SAW RF low loss filter****1178.12 MHz****Data Sheet****Characteristics**Operating temperature range:  $T = -40 \text{ }^{\circ}\text{C} \text{ to } +85 \text{ }^{\circ}\text{C}$ Terminating source impedance:  $Z_S = 150 \Omega$ Terminating load impedance:  $Z_L = 150 \Omega$ 

		min.	typ. @ 25 °C	max.	
<b>Nominal frequency</b>	$f_N$	—	1178.12	—	MHz
<b>Maximum insertion attenuation</b> 1158.12 ... 1198.12 MHz	$\alpha_{\max}$	—	3.5	4.5	dB
<b>Pass bandwidth</b> $\alpha_{\text{rel}} \leq 1.5 \text{ dB}$	$B_{1.5 \text{ dB}}$	—	57.6	—	MHz
<b>Amplitude ripple (p-p)</b> 1158.12 ... 1198.12 MHz	$\Delta\alpha$	—	1.8	2.3	dB
<b>Group delay ripple (p-p)</b> 1158.12 ... 1198.12 MHz	$\Delta\tau$	—	17.0	25.0	ns
<b>Deviation from linear phase (rms)</b> in any 30 MHz band 1158.12 ... 1198.12 MHz		—	4.0	5.5	°
<b>Relative attenuation</b> (relative to $\alpha_{\max}$ ) 50.00 ... 1096.06 MHz	$\alpha$	46.0	50.0	—	dB
1260.18 ... 2000.00 MHz		44.0	49.0	—	dB
2000.00 ... 6000.00 MHz		15.0	—	—	dB

**Maximum ratings**

Operable temperature range	$T$	$-40/+85$	$^{\circ}\text{C}$	
Storage temperature range	$T_{\text{stg}}$	$-40/+85$	$^{\circ}\text{C}$	
DC voltage	$V_{\text{DC}}$	0	V	
Source power	$P_S$	0	dBm	source impedance 150 $\Omega$



**SAW Components**

**B1617**

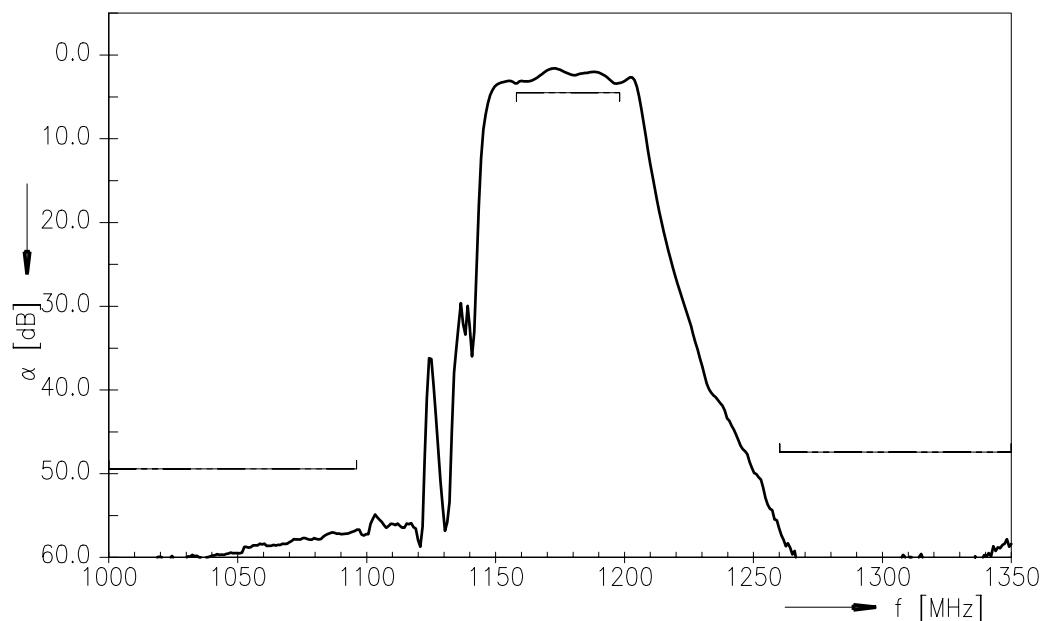
**SAW RF low loss filter**

**1178.12 MHz**

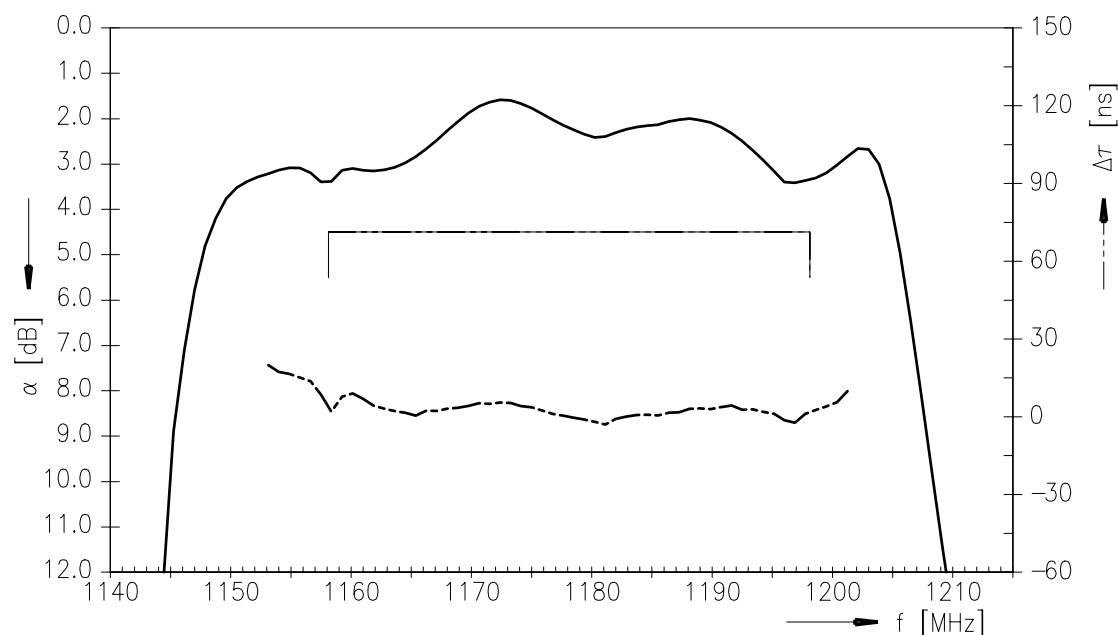
**Data Sheet**

**SMD**

**Transfer function**



**Transfer function (passband)**





<b>SAW Components</b>	<b>B1617</b>
<b>SAW RF low loss filter</b>	<b>1178.12 MHz</b>
<b>Data Sheet</b>	

## References

<b>Type</b>	B1617
<b>Ordering code</b>	B39122B1617U810
<b>Marking and package</b>	C61157-A7-A72
<b>Packaging</b>	F61074-V8168-Z000
<b>Date codes</b>	L_1126
<b>S-parameters</b>	B1617_NB.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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