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SAW Components

SAW RF low loss filter

Satellite BTS

Series/type: B1623

Ordering code: B39142B1623U810

Date: December 19, 2006

Version: 2.0

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SAW Components

B1623

SAW RF low loss filter

1420.00 MHz

Data Sheet



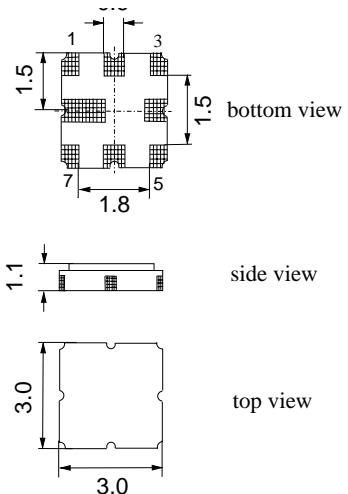
Application

- 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 150Ω



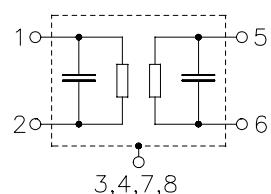
Features

- Package size $3.0 \times 3.0 \times 1.1 \text{ mm}^3$
- Maximum height of 1.225 mm
- 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****B1623****SAW RF low loss filter****1420.00 MHz****Data Sheet****Characteristics**Operating temperature range: $T = -20^{\circ}\text{C}$ to $+80^{\circ}\text{C}$ Terminating source impedance: $Z_S = 150\Omega$ Terminating load impedance: $Z_L = 150\Omega$

		min.	typ. @ 25 °C	max.	
Nominal frequency	f_N	—	1420.00	—	MHz
Maximum insertion attenuation 1400.00 ... 1440.00 MHz	α_{\max}	—	3.4	4.5	dB
Pass bandwidth $\alpha_{\text{rel}} \leq 1.5$ dB	$B_{1.5 \text{ dB}}$	—	59.0	—	MHz
Amplitude ripple (p-p) 1400.00 ... 1440.00 MHz	$\Delta\alpha$	—	1.5	2.2	dB
Group delay ripple (p-p) 1400.00 ... 1440.00 MHz	$\Delta\tau$	—	11.0	25.0	ns
Deviation from linear phase (rms) in any 30 MHz band					°
1400.00 ... 1440.00 MHz		—	3.0	3.8	°
Relative attenuation (relative to α_{\max})	α				
50.00 ... 1338.00 MHz		45.0	51.0	—	dB
1502.00 ... 1512.00 MHz		40.0	44.5	—	dB
1512.00 ... 2000.00 MHz		46.0	55.0	—	dB
2000.00 ... 6000.00 MHz		15.0	—	—	dB

Maximum ratings

Operable temperature range	T	-40/+85	°C	
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	0	V	
Source power	P_S	0	dBm	source impedance 150 Ω



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B1623

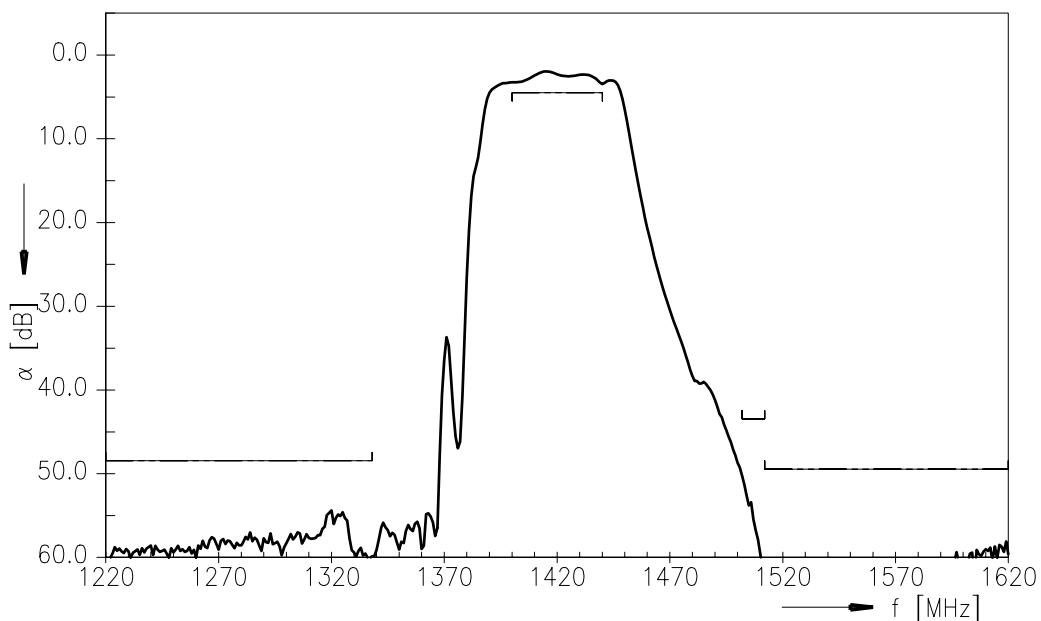
SAW RF low loss filter

1420.00 MHz

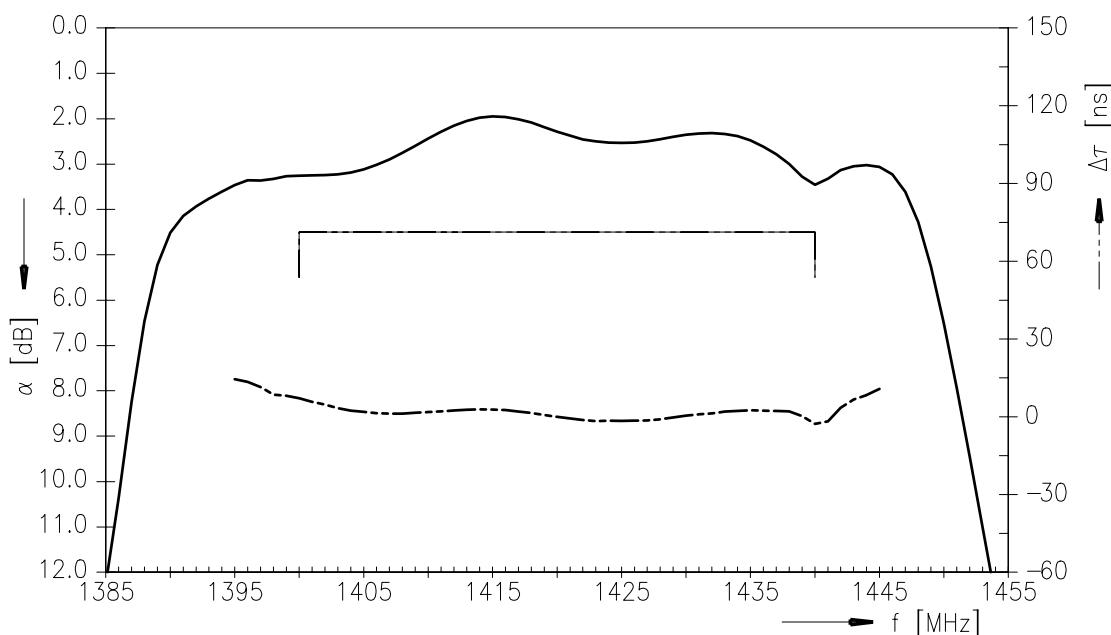
Data Sheet



Transfer function



Transfer function (passband)





SAW Components	B1623
SAW RF low loss filter	1420.00 MHz
Data Sheet	

References

Type	B1623
Ordering code	B39142B1623U810
Marking and package	C61157-A7-A72
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B1623_NB.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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