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SAW Components

SAW RF low loss filter Satellite BTS

Series/type: B1616

Ordering code: B39132B1616U810

Date: December 15, 2006

Version: 2.1

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SAW Components

B1616

SAW RF low loss filter

1280.18 MHz

Data Sheet



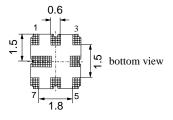
Application

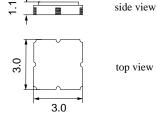
- Low loss RF filter for satellite BTS
- Usable passband 40.0 MHz
- Low insertion attenuation
- Low amplitude ripple
- Low group delay ripple
- Balanced to balanced operation
- No matching network required for operation at 150 Ω



Features

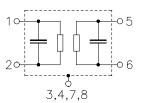
- Package size 3.0 x 3.0 x 1.1 mm³
- Maximum height of 1.225 mm
- Package code QCC8D
- RoHS compatible
- Approximate weight 0.037 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)





Pin configuration

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





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Characteristics

Operating temperature range: $T = -40 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$

Terminating source impedance: $Z_S = 150 \Omega$ Terminating load impedance: $Z_L = 150 \Omega$

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		min.	typ. @ 25 °C	max.	
Nominal frequency	f _N	_	1280.18	_	MHz
Maximum insertion attenuation	α_{max}				
1260.18 1300.18 MHz		_	3.5	4.5	dB
Pass bandwidth					
$\alpha_{\rm rel} \le 1.5 \text{ dB}$	B _{1.5 dB}	_	54.0	_	MHz
Amplitude ripple (p-p)	Δα				
1260.18 1300.18 MHz			1.6	2.3	dB
Group delay ripple (p-p)	$\Delta \tau$				
1260.18 1300.18 MHz		_	23.0	30.0	ns
Deviation from linear phase (rms) in any 30 MHz band					
1260.18 1300.18 MHz		_	4.5	6.0	0
Relative attenuation (relative to α_{max})	α				
50.00 1198.12 MHz		46.0	55.0	_	dB
1362.24 2000.00 MHz		45.0	57.0	_	dB
2000.00 6000.00 MHz		15.0	_	_	dB

Maximum ratings

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

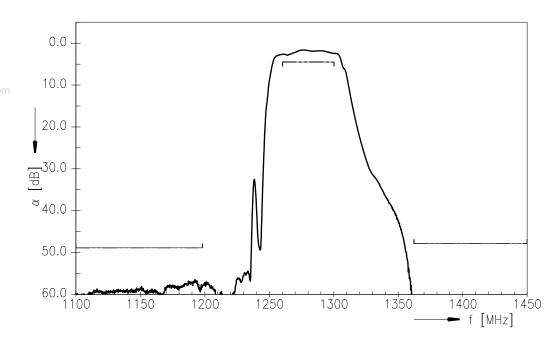


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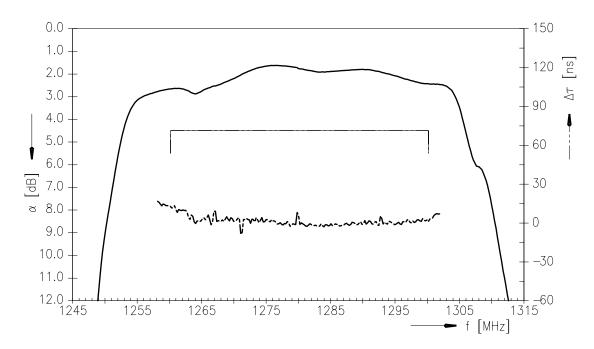
Data Sheet

SME

Transfer function



Transfer function (passband)





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References

Туре	B1616
Ordering code	B39132B1616U810
Marking and package	C61157-A7-A72
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B1616_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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