

SAW Components

SAW RF filter

Series/type: Ordering code:

B4050 B39162B4050U510

Date: Version: March 20, 2008 2.0

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SAW Components		B4050
SAW RF filter		1575.42 MHz
Data sheet	SMD	

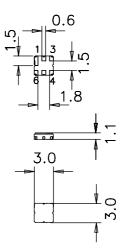
Application

- Low-loss RF filter for GPS application
- Usable passband 2.4MHz
- Low insertion attenuation, low amplitude ripple
- Unbalanced to balanced operation



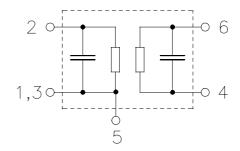
Features

- Package size 3.0 x 3.0 x 1.1 mm³
- Package code DCC6D
- RoHS compatible
- Approximate weight 0.037 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Lead free soldering compatible with J STD20C
- AEC-Q200 qualified component family
- Electrostactic Sensitive Device (ESD)



Pin configuration

- 2 Input, unbalanced
- 4,6 Output, balanced
- 1, 3, 5 To be grounded
- 1, 3, 5 Case ground



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

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SAW Components					B4050
SAW RF filter	1575.42 MH			5.42 MHz	
Data sheet	SMD				
Characteristics					
Temperature range for specification:T= -40 °C to $+85$ °CTerminating source impedance: $Z_S = 50\Omega$ Terminating load impedance: $Z_L = 50\Omega$ bal.					
		min.	typ.	max.	
Nominal frequency	f _N		1575.42		MHz
Maximum insertion attenuation 1574.22 1576.62 MHz	α_{max}	_	3.3	3.8	dB
Amplitude ripple in passband (p-p) 1574.22 1576.62 MHz	Δα	_	0.3	1.0	dB
Attenuation	α				
0.00 1250.00 MHz		50	60	_	dB
1425.00 1525.00 MHz		37	50	_	dB
1525.00 1535.42 MHz		30	44	—	dB
1615.42 1625.00 MHz		20	44	—	dB
1625.00 1675.00 MHz		37	46		dB
1675.00 1850.00 MHz		40	60		dB
1850.00 1910.00 MHz		50	60	_	dB
1910.00 2500.00 MHz		40	55	_	dB
2500.00 4000.00 MHz		20	52		dB

Maximum ratings

Operable temperature range	Т	-45/+125	°C	
Storage temperature range	T _{stg}	-45/+125	°C	
DC voltage	V _{DC}	6	V	
Source power	Ps	0	dBm	source impedance 50 Ω

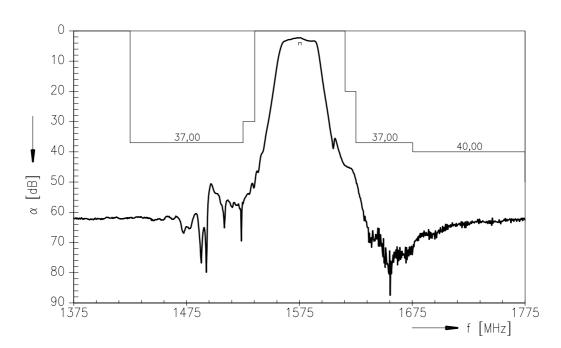
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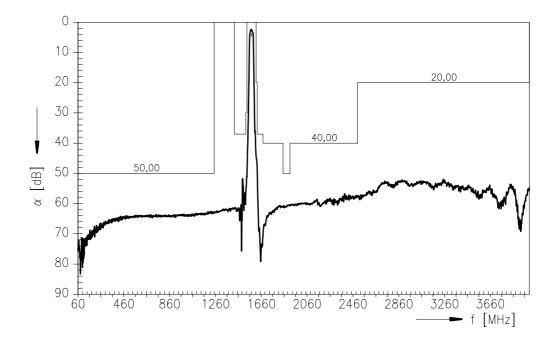




Transfer function (pass band)



Transfer function (wideband)



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SAW RF filter

SMD

References

Туре	B4050
Ordering code	B39162B4050U510
Marking and package	C61157-A7-A68
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B4050_SB.s2p B4050_WB.s2p
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 maxi- mum 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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