



SAW Components

SAW RF filter

GPS

Series/type:	B4060
Ordering code:	B39162B4060U810
Date:	July 22, 2008
Version:	2.1



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B4060

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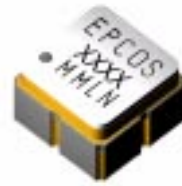
1575.42 MHz

Data sheet



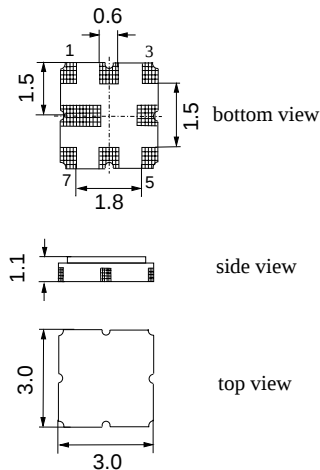
Application

- Low-loss RF filter for GPS application
- Unbalanced to unbalanced operation or unbalanced to balanced operation
- Hermetically sealed ceramic package
- No matching network required for operation at 50 Ω



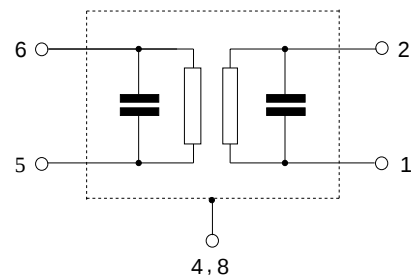
Features

- Package size 3.0 x 3.0 x 1.1 mm³
- Package code QCC8D
- 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
- **Electrostatic Sensitive Device (ESD)**



Pin configuration

- 6 Input
- 5 Input ground
- 2 Output
- 1 Output (bal.) or output ground (unbal.)
- 3, 7 To be grounded
- 4, 8 Case - ground





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Characteristics

Temperature range for specification:	$T_A = -40\text{ °C to }+105\text{ °C}$
Terminating source impedance:	$Z_S = 50\ \Omega\text{ unbal.}$
Terminating load impedance:	$Z_L = 50\ \Omega\text{ unbal.}$

		min.	typ. @25°C	max.	
Nominal frequency	f_N	—	1575.42	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$	—	1.3	2.0 ¹⁾	dB
	1574.22 ... 1576.62 MHz				
Amplitude ripple in passband (p-p)	$\Delta\alpha$	—	0.1	1.0	dB
	1574.22 ... 1576.62 MHz				
Attenuation	α				
	100.00 ... 1450.00 MHz	40	44	—	dB
	1450.00 ... 1520.00 MHz	30	34	—	dB
	1625.00 ... 1640.00 MHz	20	25	—	dB
	1640.00 ... 1710.00 MHz	25	30	—	dB
	1710.00 ... 1805.00 MHz	35	43	—	dB
	1805.00 ... 1910.00 MHz	45	52	—	dB
	1910.00 ... 2000.00 MHz	40	45	—	dB

¹⁾ $T = -45\text{ °C to }+85\text{ °C}$: 1.8 dB

Maximum ratings

Operable temperature range	T	−45/+125	°C	
Storage temperature range	T_{stg}	−45/+125	°C	
DC voltage	V_{DC}	6	V	
Source power	P_S	10	dBm	source impedance 50 Ω , c. w.
		20	dBm	824 MHz to 849 MHz, 890 MHz to 915 MHz, 1710 MHz to 1785 MHz

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



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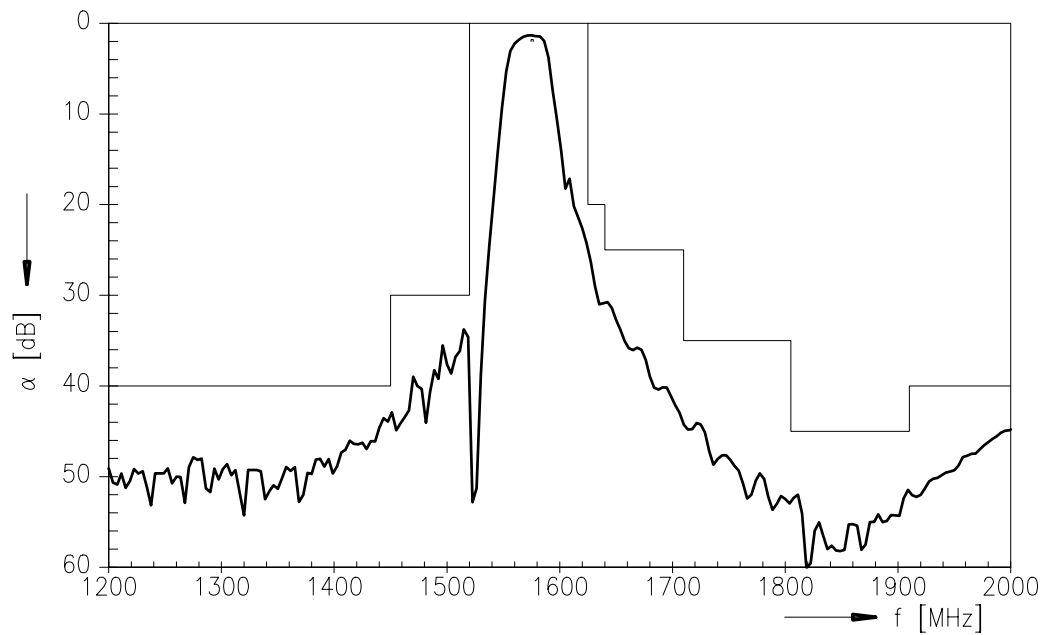
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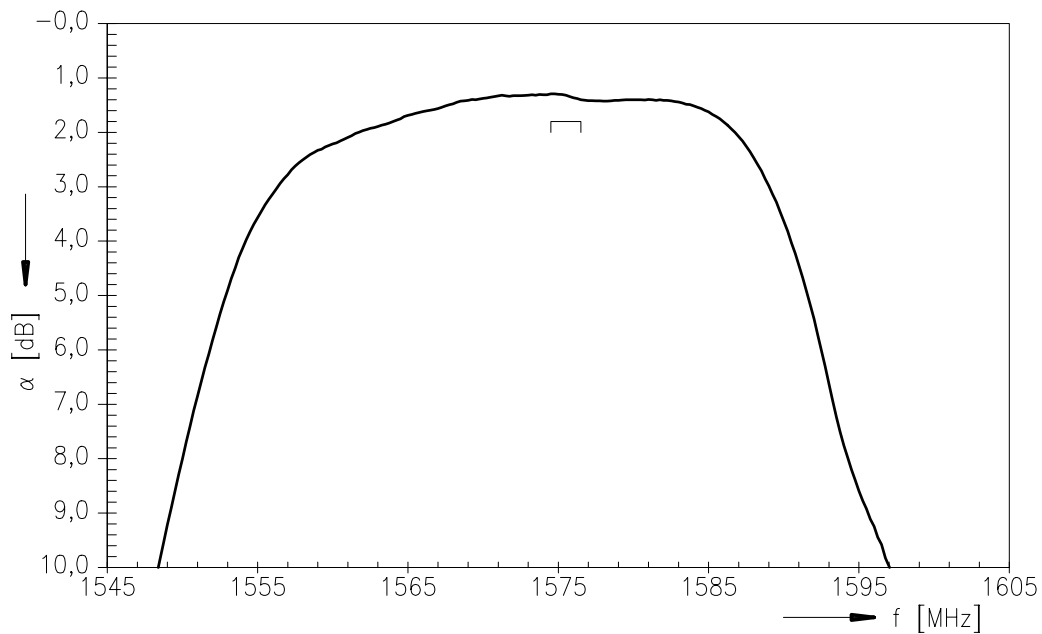
Data sheet



Transfer function



Transfer function (passband)



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Data sheet

**References**

Type	B4060
Ordering code	B39162B4060U810
Marking and package	C61157-A7-A72
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B4060_NB.s2p B4060_WB.s2p See file header for port/pin assignment table.
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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