

Data Sheet B4060





SAW Components B4060 Low-Loss Filter for Automotive Telematics 1575,42 MHz

Data Sheet

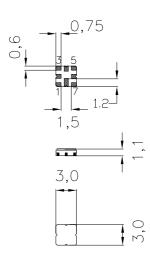
Features

- RF low-loss filter for GPS application
- Unbalanced to unbalanced or unbalanced to balanced operation
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package
- No matching network required for operation at 50 Ω
- Extended temperature range for automotive application
- Compliant to EU RoHs Directive (2002/95/EC)
- Lead free soldering compatible with J STD20C

Terminals

■ Ni, gold-plated

SMD ceramic package QCC8D



Dimensions in mm, approx. weight 0,037 g

Pin configuration

6	Input
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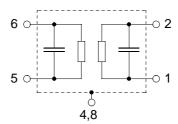
5 Input ground

2 Output

1 Output (bal) or output ground (unbal.)

3, 7 To be grounded

4, 8 Case - ground



Туре	Ordering code	Marking and Package	Packing
		according to	according to
B4060	B39162-B4060-U810	C61157-A7-A72	F61074-V8168-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 40/ +105	°C	
Storage temperature range	$T_{ m stg}$	- 40/ + 105	°C	
DC voltage	$V_{\rm DC}$	0	V	
Source power	P_{s}	0	dBm	source impedance 50 Ω , c.w.
		10	dBm	824849 MHz, 890915 MHz,
				17101785 MHz



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Characteristics

Operating temperature range: $T_{\rm A} = -40 \dots +85 \,^{\circ}{\rm C}$ Terminating source impedance: $Z_{\rm S} = 50 \,\Omega$ unbal. Terminating load impedance: $Z_{\rm L} = 50 \,\Omega$ unbal.

		min.	typ.	max.	
Nominal frequency	f_{N}	_	1575,42	_	MHz
Maximum insertion attenuation	α_{max}				
1574,22 MHz 1576,62 MHz		_	1,3	1,8	dB
Amplitude ripple in passband (p-p)					
1574,22 MHz 1576,62 MHz		_	0,1	1,0	dB
Attenuation	α				
100,0 MHz 1450,0 MHz		40	44	_	dB
1450,0 MHz 1520,0 MHz		30	34	_	dB
1625,0 MHz 1640,0 MHz		20	25	_	dB
1640,0 MHz 1710,0 MHz		25	30	_	dB
1710,0 MHz 1805,0 MHz		35	43	_	dB
1805,0 MHz 1910,0 MHz		45	52	_	dB
1910,0 MHz 2000,0 MHz		40	45	<u> </u>	dB



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Characteristics

Operating temperature range: $T_{\rm A} = -40 \dots +105 \,^{\circ}{\rm C}$ Terminating source impedance: $Z_{\rm S} = 50 \, \Omega$ unbal. Terminating load impedance: $Z_{\rm L} = 50 \, \Omega$ unbal.

		min.	typ.	max.	
Nominal frequency	f_{N}	-	1575,42	_	MHz
Maximum insertion attenuation	α_{max}				
1574,22 MHz 1576,62 M	-	<u> </u>	1,3	2,0	dB
Amplitude ripple in passband (p-p)					
1574,22 MHz 1576,62 M	$\Delta lpha$ Hz	_	0,1	1,0	dB
Attenuation	O.				
100,0 MHz 1450,0 MH	α Iz	40	44	_	dB
1450,0 MHz 1520,0 MH		30	34	_	dB
1625,0 MHz 1640,0 MH	lz	20	25	_	dB
1640,0 MHz 1710,0 MH	lz	25	30	_	dB
1710,0 MHz 1805,0 MH	lz	35	43	_	dB
1805,0 MHz 1910,0 MH	lz	45	52	_	dB
1910,0 MHz 2000,0 MH	z	40	45	_	dB



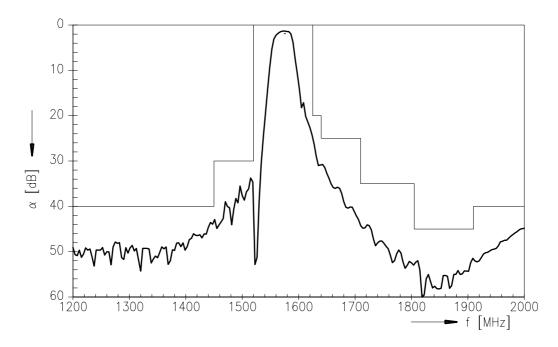
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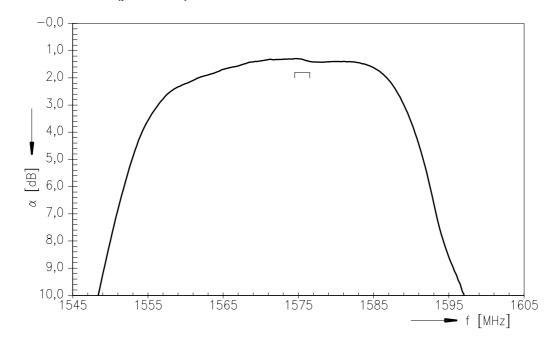
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Transfer function



Transfer function (pass band)





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