EPCOS

SAW Components

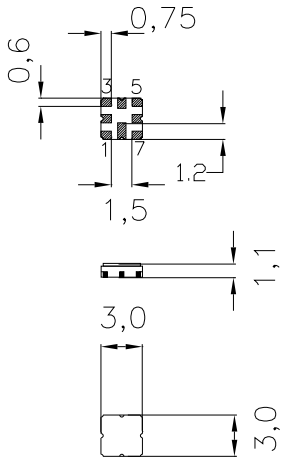
Data Sheet B4060

Data Sheet

SMD ceramic package **QCC8D**

Features

- RF low-loss filter for GPS application
- Unbalanced to unbalanced or unbalanced to balanced operation
- Package for **S**urface **M**ounted **T**echnology (**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



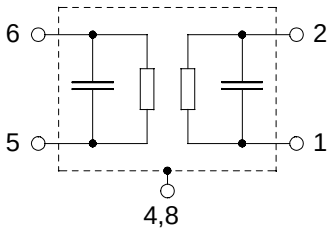
Terminals

- Ni, gold-plated

Dimensions in mm, approx. weight 0,037 g

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



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

Electrostatic **S**ensitive **D**evice (**ESD**)

Maximum ratings

Operable temperature range	T	– 40/ +105	˚C	
Storage temperature range	T_{stg}	– 40/ +105	˚C	
DC voltage	V_{DC}	0	V	
Source power	P_s	0	dBm	source impedance 50 Ω, c.w.
		10	dBm	824...849 MHz, 890...915 MHz, 1710...1785 MHz

Data Sheet

Characteristics

Operating temperature range: T_A = – 40 ... +85 °C
Terminating source impedance: Z_S = 50 Ω unbal.
Terminating load impedance: Z_L = 50 Ω 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)	$\Delta\alpha$				
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	—	dB

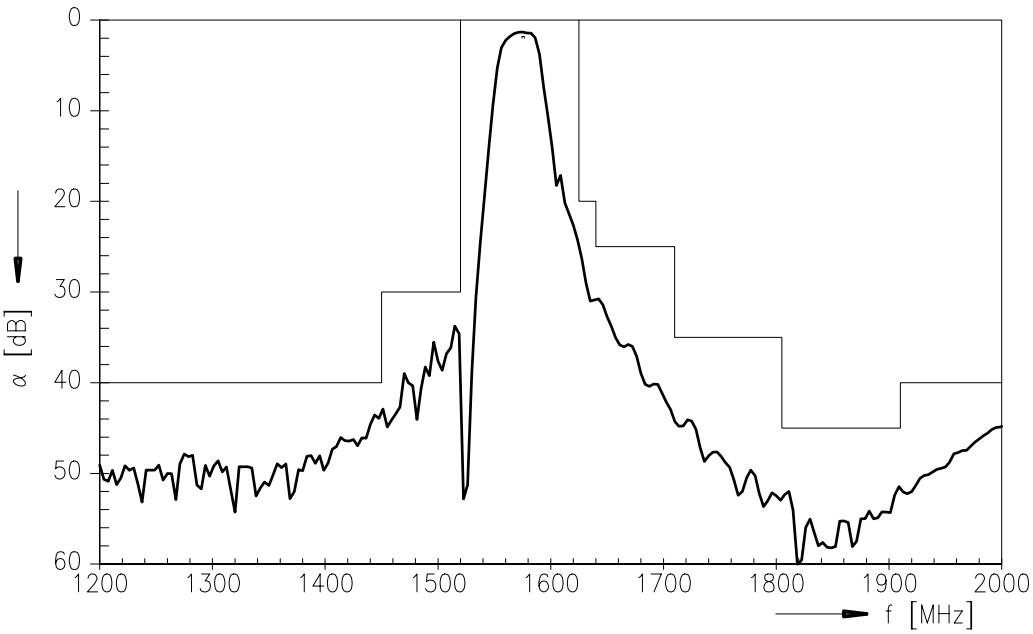
Data Sheet

Characteristics

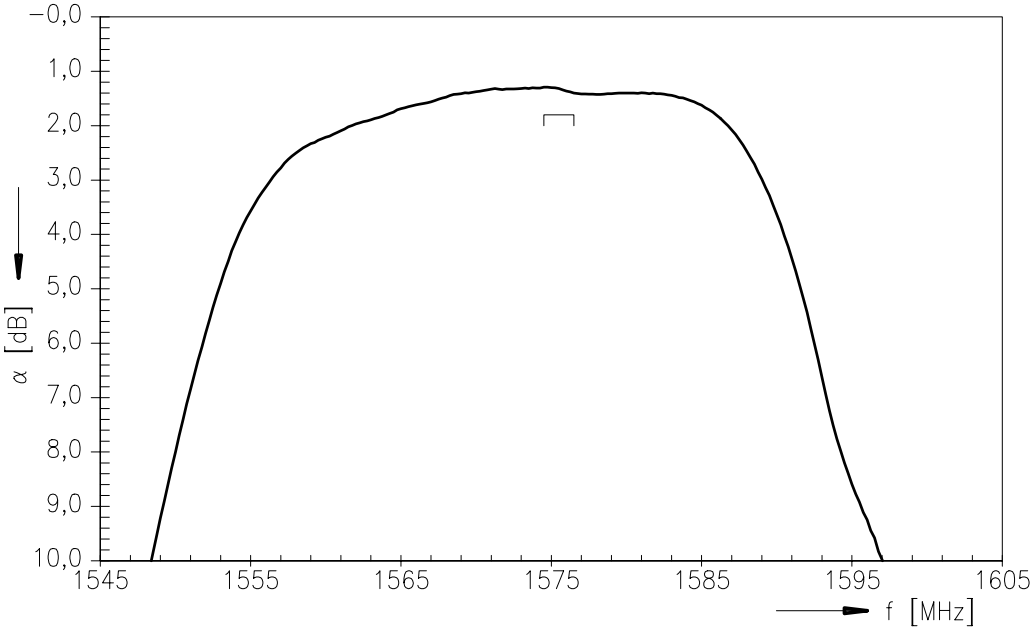
Operating temperature range: T_A = – 40 ... +105 °C
Terminating source impedance: Z_S = 50 Ω unbal.
Terminating load impedance: Z_L = 50 Ω unbal.

		min.	typ.	max.	
Nominal frequency	f_N	—	1575,42	—	MHz
Maximum insertion attenuation	α_{max}				
1574,22 MHz ... 1576,62 MHz		—	1,3	2,0	dB
Amplitude ripple in passband (p-p)	$\Delta\alpha$				
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	—	dB

Transfer function



Transfer function (pass band)



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