



SAW Components

Data Sheet B4060

Data Sheet

An abstract, grayscale graphic featuring a stylized, three-dimensional representation of the EPCOS logo. The letters "EPCOS" are rendered in a bold, sans-serif font, appearing to be part of a larger, curved structure that resembles a globe or a stylized letter 'S'. The background is dark and textured, with light reflecting off the surfaces of the logo.



SAW Components

B4060

Low-Loss Filter for Automotive Telematics

1575,42 MHz

Data Sheet

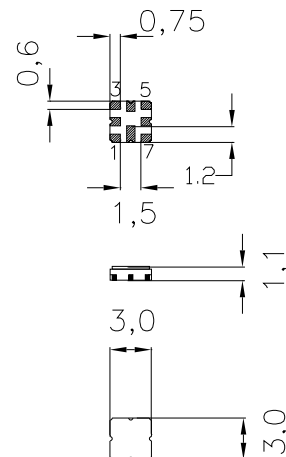
SMD ceramic package **QCC8D**

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

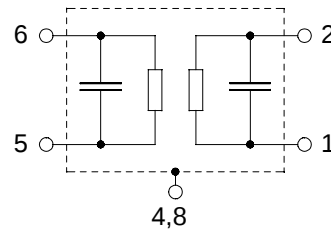
- Ni, gold-plated



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 Sensitive Device (ESD)

Maximum ratings

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



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Characteristics

Operating temperature range: $T_A = -40 \dots +85 \text{ }^{\circ}\text{C}$

Terminating source impedance: $Z_S = 50 \text{ } \Omega \text{ unbal.}$

Terminating load impedance: $Z_L = 50 \text{ } \Omega \text{ unbal.}$

		min.	typ.	max.	
Nominal frequency	f_N	—	1575,42	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$				
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



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Characteristics

Operating temperature range: $T_A = -40 \dots +105 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega \text{ unbal.}$
 Terminating load impedance: $Z_L = 50 \text{ } \Omega \text{ unbal.}$

		min.	typ.	max.	
Nominal frequency	f_N	—	1575,42	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$				
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
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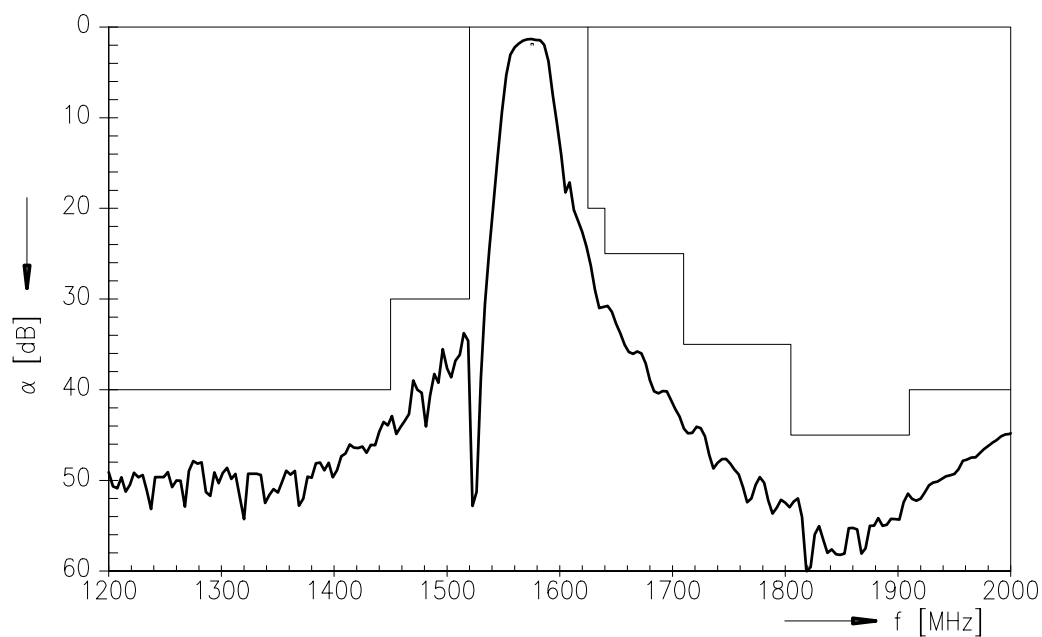
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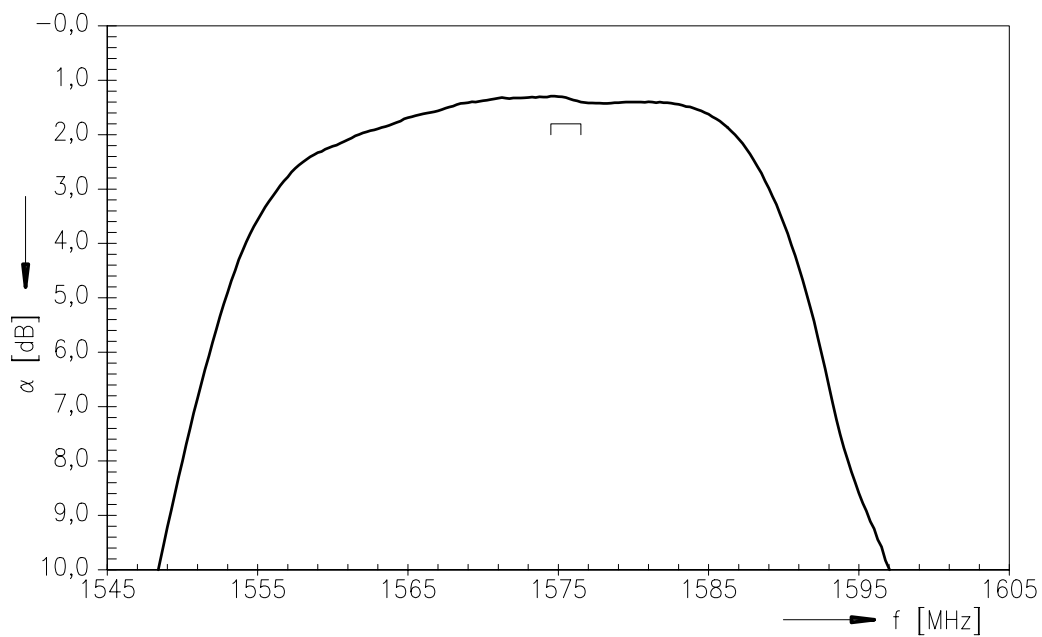
1575,42 MHz

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Transfer function



Transfer function (pass band)





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