



SAW Components

Data Sheet B4060

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a blue glow and are positioned diagonally across the frame. In the background, there is a faint, stylized globe with circuitry patterns, suggesting a global network or technological theme. The overall color scheme is dark with blue and white highlights.



SAW Components

B4060

Low-Loss Filter for Automotive Telematics

1575,42 MHz

Data Sheet

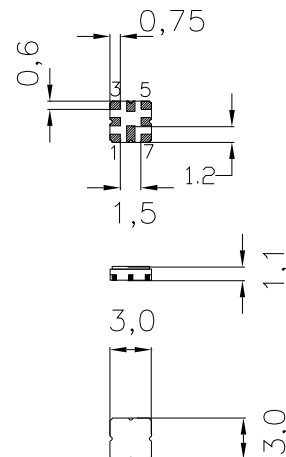
SMD ceramic package **QCC8D**

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

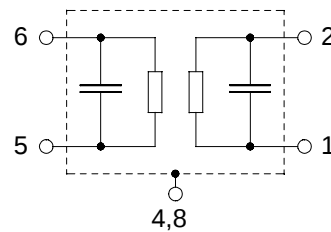
- Ni, gold-plated



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	



SAW Components

B4060

Low-Loss Filter for Automotive Telematics

1575,42 MHz

Data Sheet

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



SAW Components

B4060

Low-Loss Filter for Automotive Telematics

1575,42 MHz

Data Sheet

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
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



SAW Components

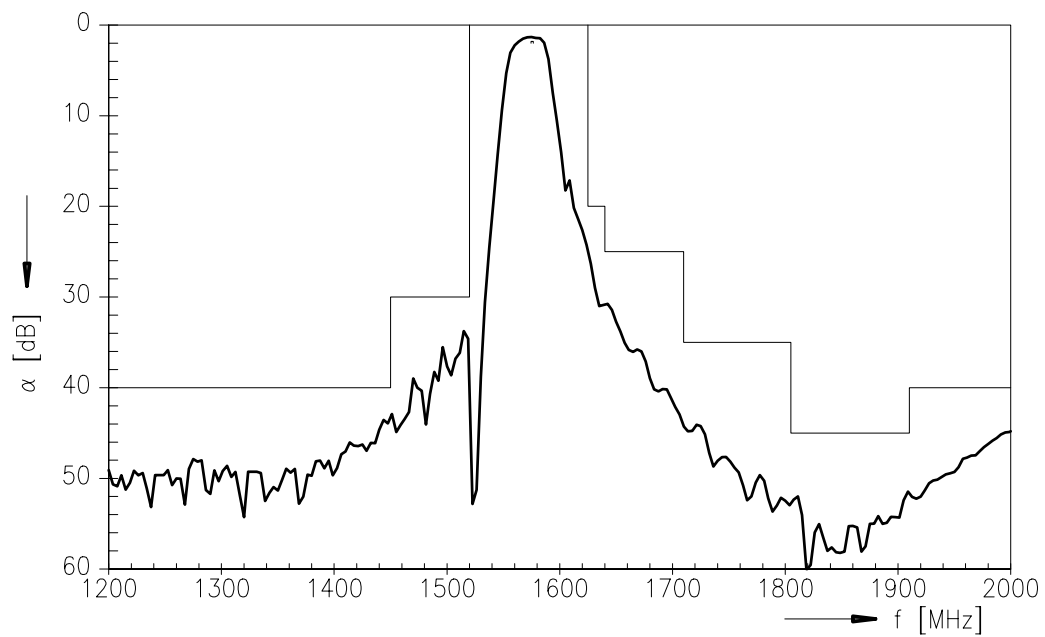
B4060

Low-Loss Filter for Automotive Telematics

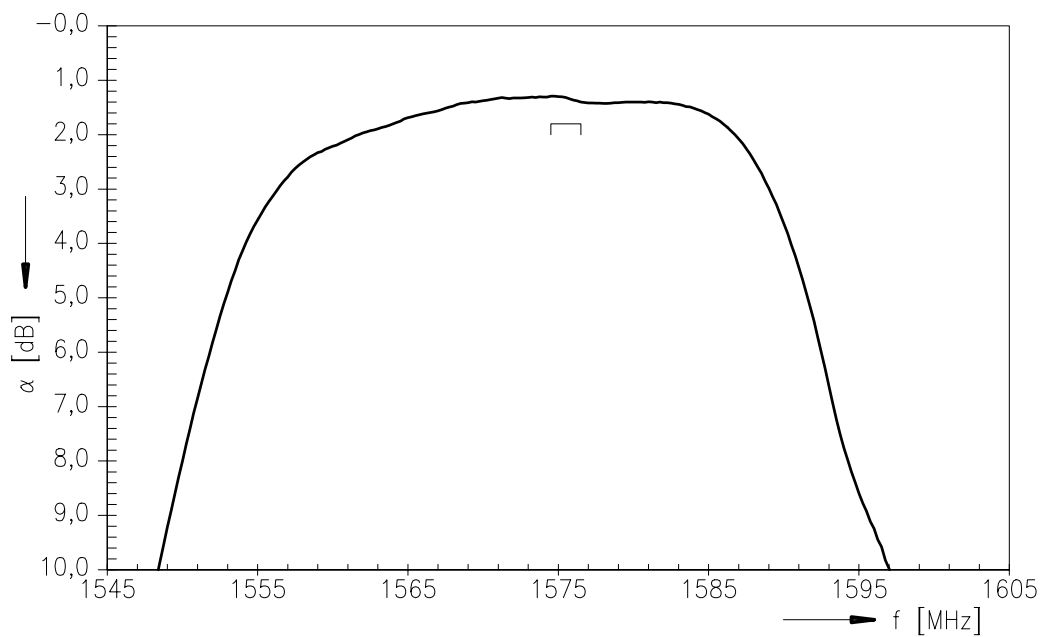
1575,42 MHz

Data Sheet

Transfer function



Transfer function (pass band)





SAW Components

B4060

Low-Loss Filter for Automotive Telematics

1575,42 MHz

Data Sheet

Published by EPCOS AG

Surface Acoustic Wave Components Division, SAW COM AE

P.O. Box 80 17 09, 81617 Munich, GERMANY

©.EPCOS AG 2005. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.