



SAW Components

Data Sheet B4908

Data Sheet

An abstract, grayscale background graphic featuring a globe with a grid pattern. Overlaid on the globe is a large, stylized, 3D-effect word "EPCOS" in a light gray color. The word is tilted and appears to be floating or emerging from the globe. The overall image has a soft, ethereal quality with a dark background.



SAW Components

B4908

Low-Loss Filter for Mobile Communication

158,55 MHz

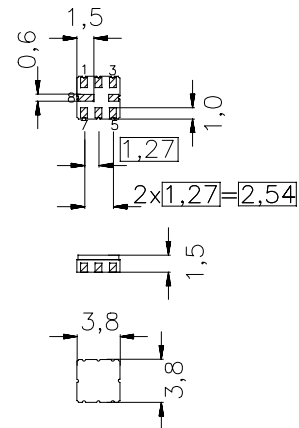
Data Sheet



Features

- Low-loss IF filter for mobile telephone, transmit path
- Low amplitude ripple
- Usable passbands 1,3 MHz
- Balanced and unbalanced operation possible
- Ceramic package for **Surface Mounted Technology (SMT)**

Ceramic package QCC8B



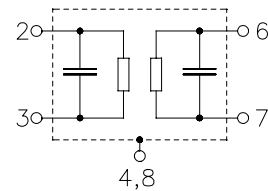
Terminals

- Ni, gold-plated

Dimensions in mm, approx. weight 0,07 g

Pin configuration

2	Input
3	Input
6	Output
7	Output
4,8	Case - Ground
1,5	To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B4908	B39161-B4908-Z810	C61157-A7-A46	F61074-V8037-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 40 / + 85	°C	
Storage temperature range	T_{stg}	- 40 / + 85	°C	
DC voltage	V_{DC}	0	V	
Source power	P_{IN}	10	dBm	source impedance 50 Ω



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Characteristics

Operating temperature range:

$T = -40$ to $+85$ °C

Terminating source impedance:

$Z_S = 470 \Omega \parallel 470$ nH, single ended (pin 3)

Terminating load impedance:

$Z_L = 470 \Omega \parallel 680$ nH, balanced

				min.	typ.	max.	
Center frequency	f_c			—	158,55	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$			—	2,5	3,0	dB
		157,90 ... 159,20 MHz					
Amplitude ripple in passband (p-p)	$\Delta\alpha$			—	0,5	1,0	dB
		157,90 ... 159,20 MHz					
Phase linearity deviation	$\Delta\phi$			—	0,6	1,5	°rms
		157,90 ... 159,20 MHz					
Attenuation	$\alpha_{\min}$						
		0,00 ... 130,00 MHz		50	55	—	dB
		130,00 ... 139,00 MHz		40	52	—	dB
		139,00 ... 151,55 MHz		30	39	—	dB
		165,55 ... 178,00 MHz		14	16	—	dB
		178,00 ... 475,00 MHz		35	40	—	dB
		475,00 ... 1000,00 MHz		45	70	—	dB



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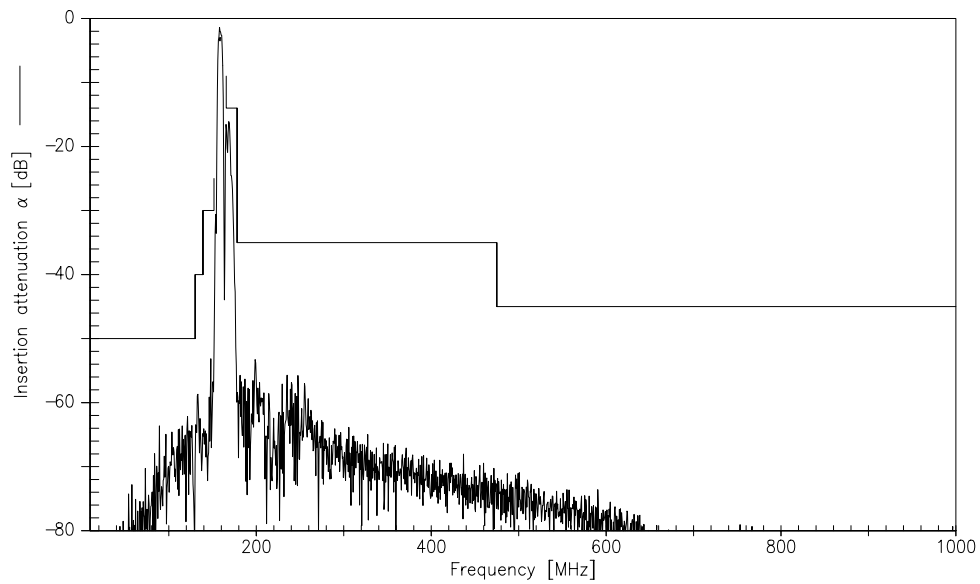
Low-Loss Filter for Mobile Communication

158,55 MHz

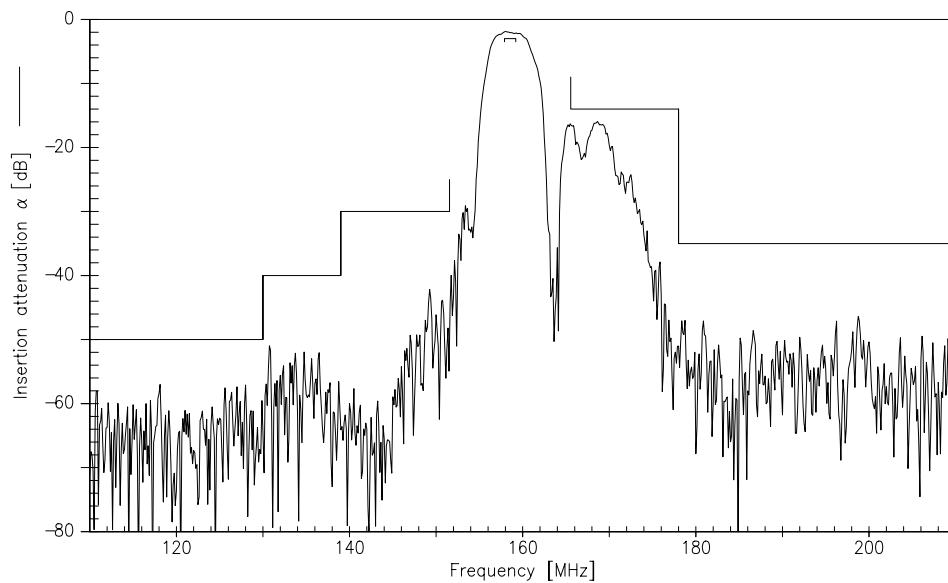
Data Sheet



Transfer function (wideband):



Transfer function (narrowband):





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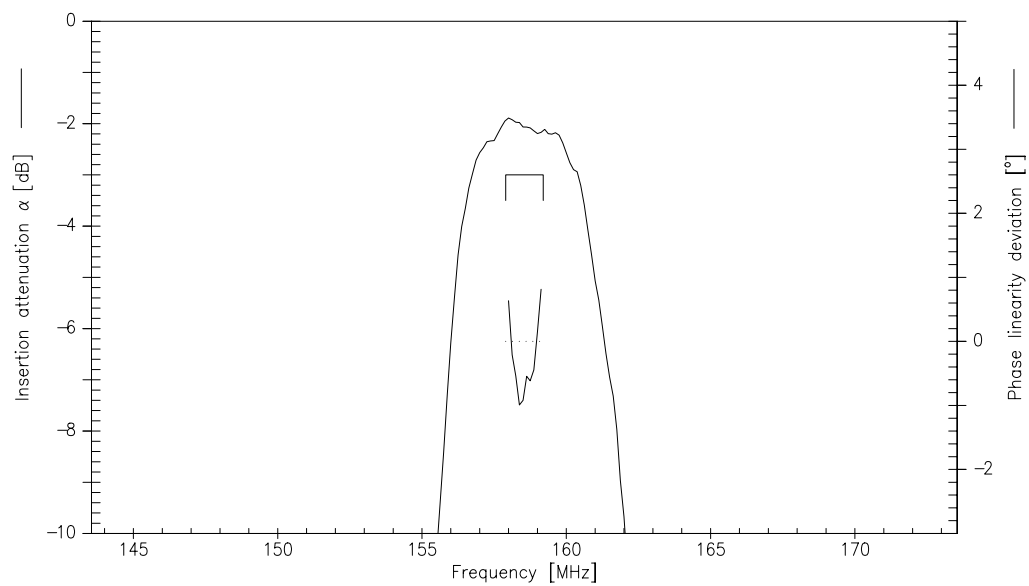
158,55 MHz

Data Sheet



Transfer function (passband) :

Phase linearity deviation = 0.65° rms





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Data Sheet	SMD

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