

Data Sheet B4908





B4908

#### **Low-Loss Filter for Mobile Communication**

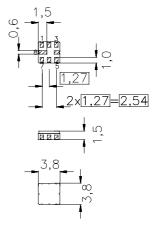
158,55 MHz

**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**

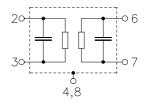
1,5

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



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

Electrostatic Sensitive Device (ESD)

To be grounded

#### **Maximum ratings**

Operable temperature range	T	<b>- 40 / + 85</b>	°C	
Storage temperature range	$T_{\rm stg}$	<b>- 40 / + 85</b>	°C	
DC voltage	$V_{\rm DC}$	0	V	
Source power	$P_{\text{IN}}$	10	dBm	source impedance 50 $\Omega$



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#### **Characteristics**

Operating temperature range:

T = -40 to +85  $^{\circ}$  C  $Z_{\rm S}$  = 470  $\Omega$  || 470 nH, single ended (pin 3)  $Z_{\rm L}$  = 470  $\Omega$  || 680 nH, balanced Terminating source impedance:

Terminating load impedance:

					min.	typ.	max.	
Center frequency				f <sub>C</sub>	_	158,55	_	MHz
Maximum insertion attenuation				$\alpha_{max}$				
157,90		159,20	MHz		_	2,5	3,0	dB
Amplitude ripple in passband (p-p)			Δα					
157,90		159,20	MHz			0,5	1,0	dB
Phase linearity deviation				Δφ				
157,90		159,20	MHz			0,6	1,5	rms
Attenuation				$\alpha_{\text{min}}$				
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

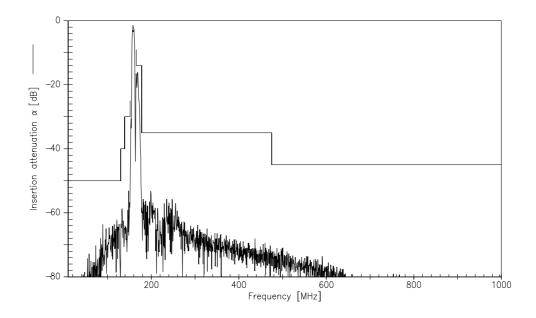


SAW Components B4908
Low-Loss Filter for Mobile Communication 158,55 MHz

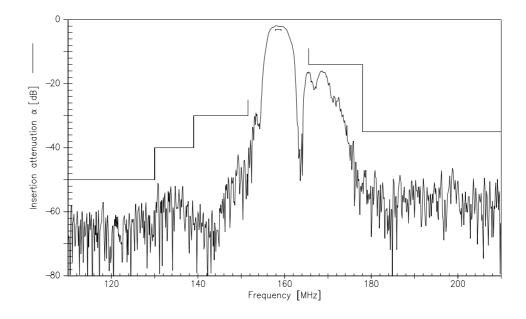
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## Transfer function (wideband):



## Transfer function (narrowband):





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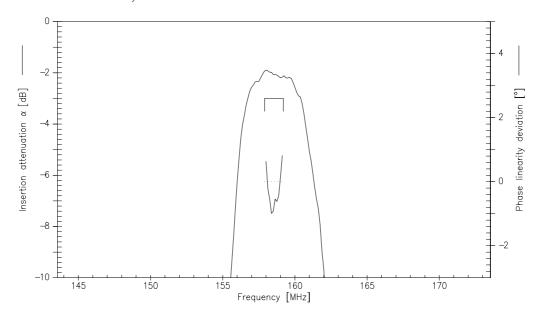
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## **Transfer function** (passband ):

Phase linearity deviation = 0.65 ° rms





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#### Published by EPCOS AG Surface Acoustic Wave Components Division, OFW E MF P.O. Box 80 17 09, D-81617 München

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