



SAW Components

Data Sheet B4908





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B4908

Low-Loss Filter for Mobile Communication

158,55 MHz

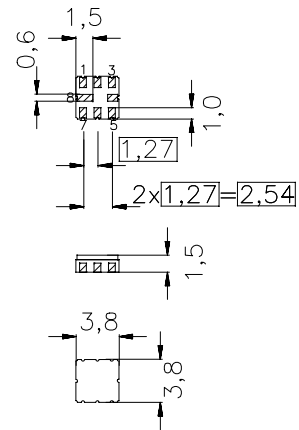
Data Sheet



Ceramic package QCC8B

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)**



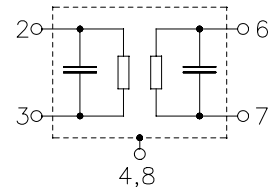
Terminals

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



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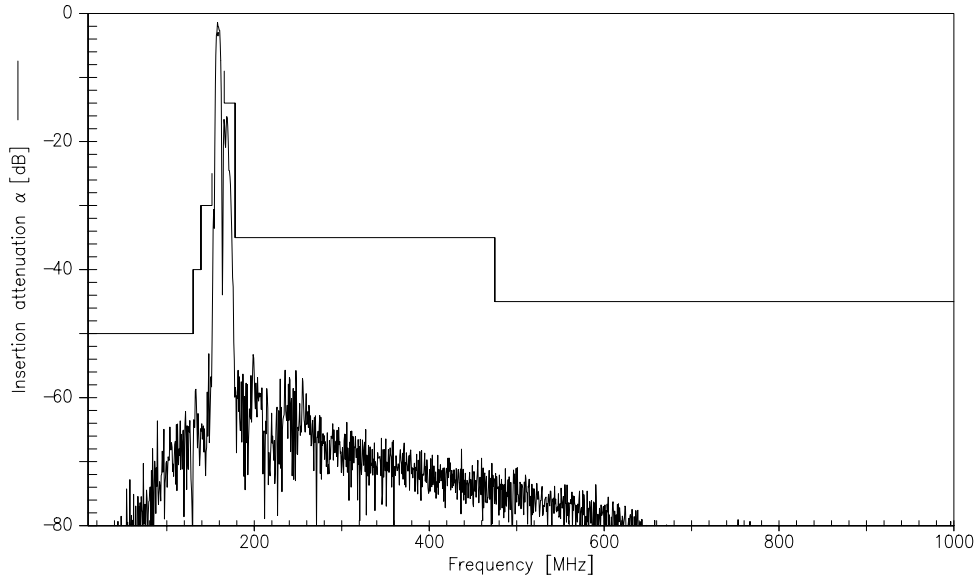
Characteristics

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

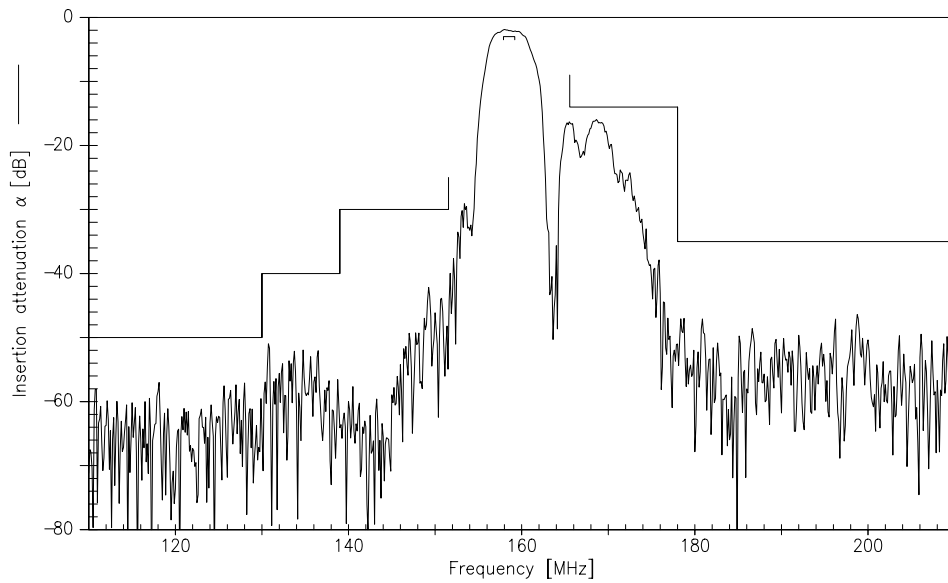
				min.	typ.	max.	
Center frequency			f_c	—	158,55	—	MHz
Maximum insertion attenuation			α_{max}				
	157,90	...	159,20 MHz	—	2,5	3,0	dB
Amplitude ripple in passband (p-p)			$\Delta\alpha$				
	157,90	...	159,20 MHz	—	0,5	1,0	dB
Phase linearity deviation			$\Delta\phi$				
	157,90	...	159,20 MHz	—	0,6	1,5	°rms
Attenuation			α_{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



Transfer function (wideband):



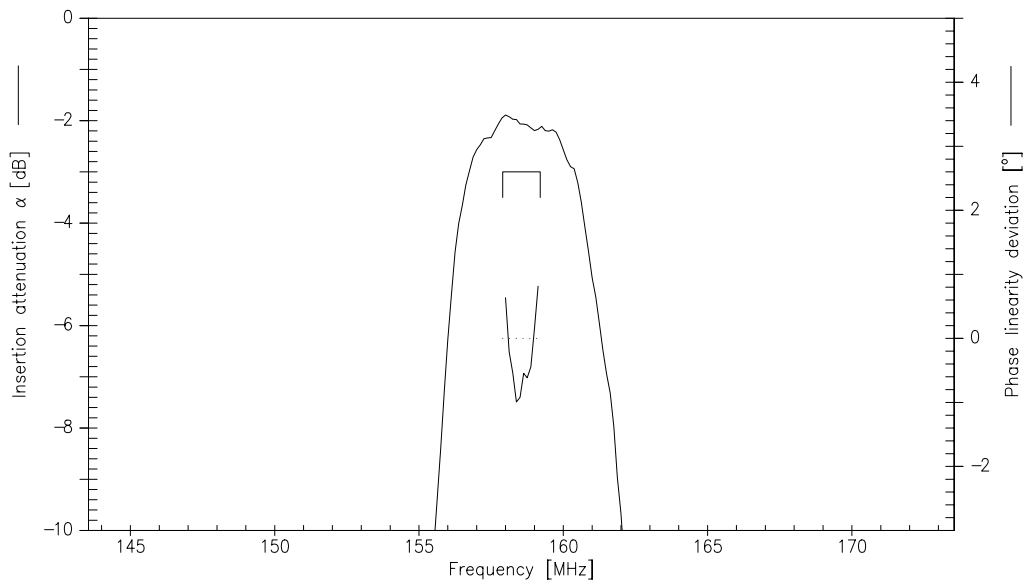
Transfer function (narrowband):





Transfer function (passband) :

Phase linearity deviation = 0.65 ° rms





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