



# SAW Components

Preliminary Data B4048

Data Sheet

An abstract, grayscale graphic featuring the word "EPCOS" in large, bold, white letters. The letters are partially obscured by a series of overlapping, curved, metallic-looking bands that create a sense of depth and motion. The background is dark and textured.



## SAW Components

B4048

## Low-Loss Filter for Mobile Communication

1200,0 MHz

### Preliminary Data



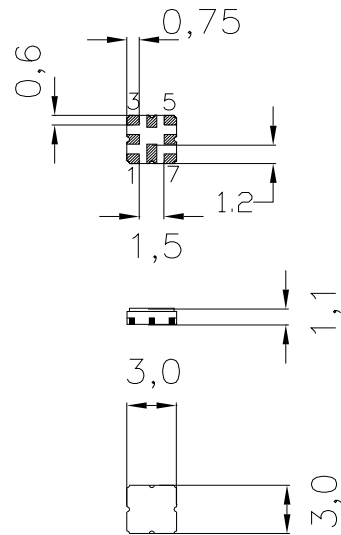
#### Features

- Low-loss IF filter for wireless LAN
- Balanced to balanced operation
- No matching network required for operation at 200  $\Omega$
- Low amplitude ripple
- Low group delay ripple
- Usable passband 20 MHz
- Package for Surface Mounted Technology (SMT)

#### Terminals

- Gold-plated Ni

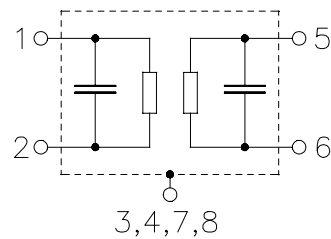
Ceramic package QCC8D



Dimensions in mm, approx. weight 0,037 g

#### Pin configuration

- |      |                                  |
|------|----------------------------------|
| 1    | Balanced Input                   |
| 2    | Balanced Input or input grounded |
| 3, 7 | To be grounded                   |
| 5    | Balanced output                  |
| 6    | Balanced output or output ground |
| 4, 8 | Case ground, to be grounded      |



Type	Ordering code	Marking and Package according to	Packing according to
B4048	B39122-B4048-U810	C61157-A7-A67	F61074-V8101-Z000

Electrostatic Sensitive Device (ESD)

#### Maximum ratings

Operating temperature range	$T$	10 /+ 85	$^{\circ}\text{C}$	source and load impedance 200 $\Omega$ continuous wave signal
Storage temperature range	$T_{\text{stg}}$	- 40 /+ 85	$^{\circ}\text{C}$	
DC voltage	$V_{\text{DC}}$	0	V	
Input power max.	$P_{\text{IN}}$	0	dBm	



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#### Characteristics

Operating temperature range:	$T$	= 10° C to 85° C
Terminating source impedance:	$Z_S$	= 200 $\Omega$
Terminating load impedance:	$Z_L$	= 200 $\Omega$

		min.	typ.	max.	
<b>Center frequency</b>	$f_C$	—	1200,0	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$				
1190,0 ... 1210,0 MHz		—	3,4	4,2	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$				
1190,0 ... 1210,0 MHz		—	1,3	2,0	dB
<b>Group delay ripple (p-p)</b>					
1190,0 ... 1210,0 MHz	$\Delta\tau$	—	8,6	20,0	ns
<b>Group delay</b>					
1190,0 ... 1210,0 MHz	$\tau$	25,0	41,5	55,0	ns
<b>VSWR</b>					
1190,0 ... 1210,0 MHz		—	1,4	1,6	
<b>Absolute attenuation</b>	$\alpha$				
0,0 ... 1100,0 MHz		43,0	49,0	—	
1100,0 ... 1160,0 MHz		40,0	47,0	—	
1160,0 ... 1170,0 MHz		32,0	40,0	—	
1230,0 ... 1240,0 MHz		30,0	38,0	—	
1240,0 ... 1800,0 MHz		40,0	44,0	—	
1800,0 ... 4000,0 MHz		35,0	42,0	—	



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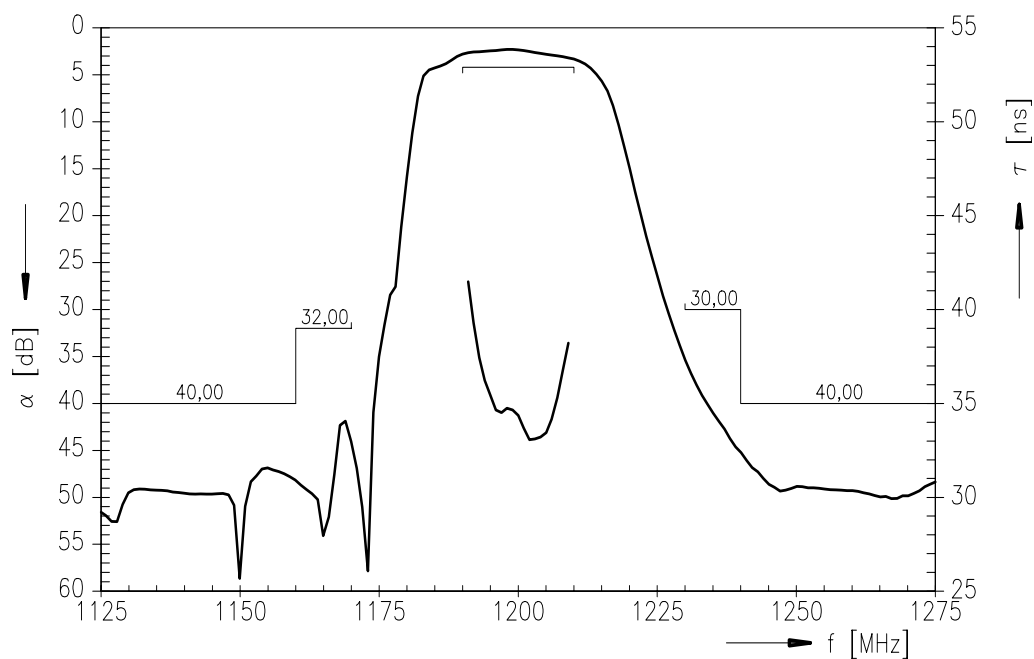
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1200,0 MHz

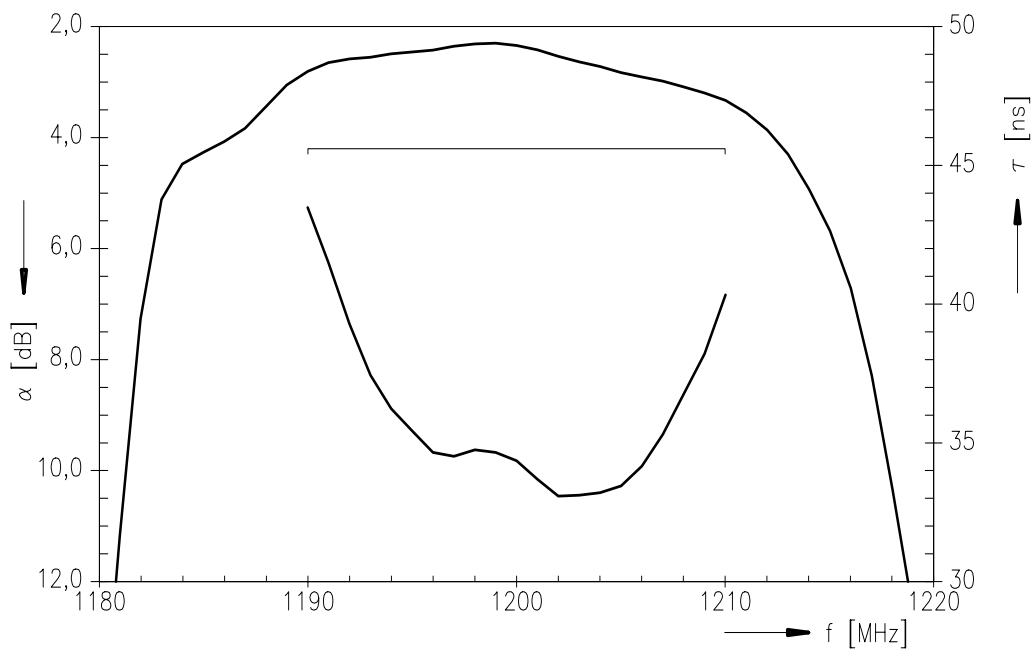
Preliminary Data



Transfer function



Transfer function (passband)





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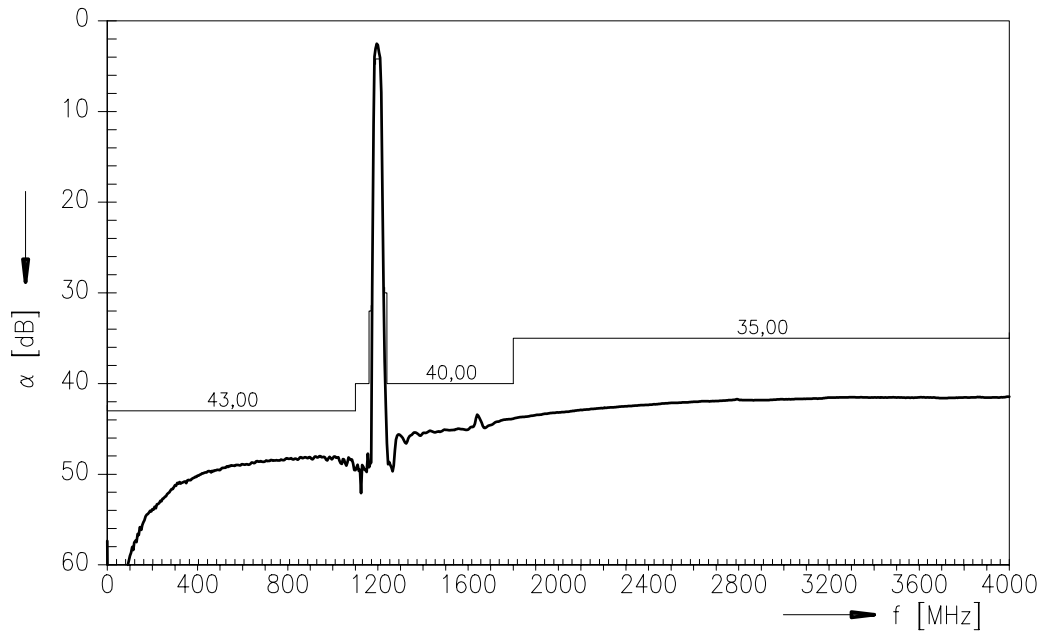
Low-Loss Filter for Mobile Communication

1200,0 MHz

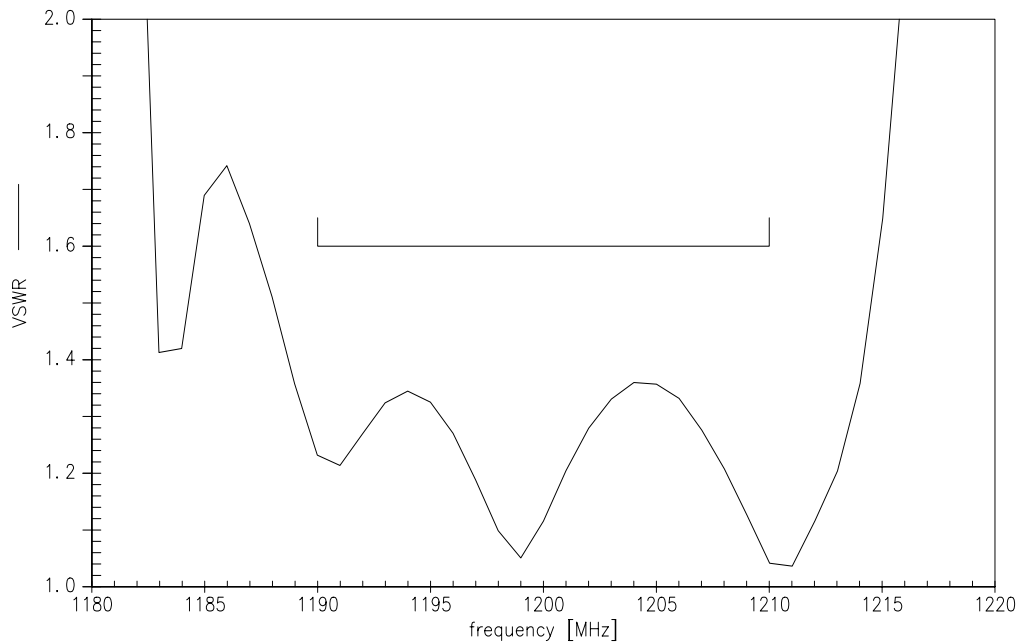
Preliminary Data



Transfer function (wideband)



VSWR





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