



SAW Components

Preliminary Data B4048

Data Sheet

A large, stylized, 3D-rendered graphic of the EPCOS logo. The letters "EPCOS" are rendered in a white, glowing, sans-serif font, appearing to be part of a larger, curved structure that resembles a stylized globe or a series of overlapping planes. The background is dark and textured.



SAW Components

B4048

Low-Loss Filter for Mobile Communication

1200,0 MHz

Preliminary Data



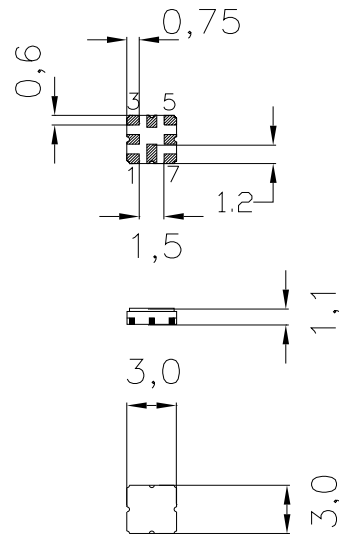
Ceramic package QCC8D

Features

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

Terminals

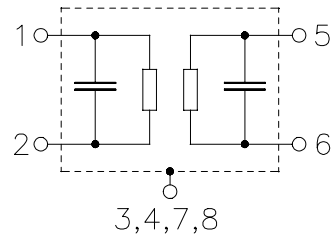
- Gold-plated Ni



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	°C	source and load impedance 200 Ω continuous wave signal
Storage temperature range	T_{stg}	- 40 /+ 85	°C	
DC voltage	V_{DC}	0	V	
Input power max.	P_{IN}	0	dBm	



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Characteristics

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

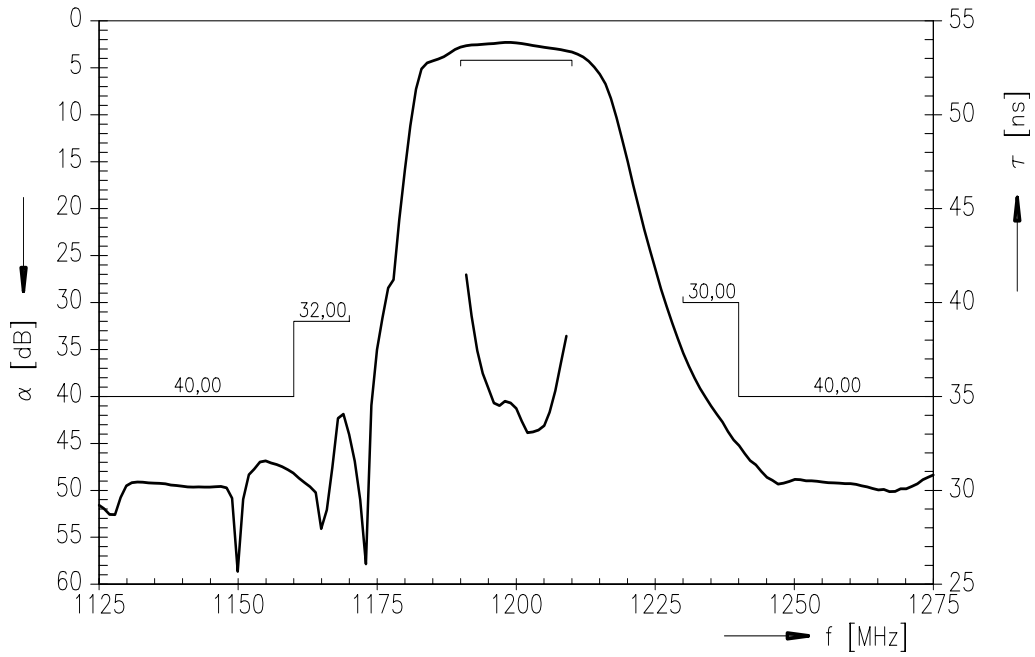
		min.	typ.	max.	
Center frequency	f_C	—	1200,0	—	MHz
Maximum insertion attenuation	α_{\max}	—	3,4	4,2	dB
1190,0 ... 1210,0 MHz					
Amplitude ripple (p-p)	$\Delta\alpha$	—	1,3	2,0	dB
1190,0 ... 1210,0 MHz					
Group delay ripple (p-p)	$\Delta\tau$	—	8,6	20,0	ns
1190,0 ... 1210,0 MHz					
Group delay	τ	25,0	41,5	55,0	ns
1190,0 ... 1210,0 MHz					
VSWR		—	1,4	1,6	
Absolute attenuation	α				
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	—	



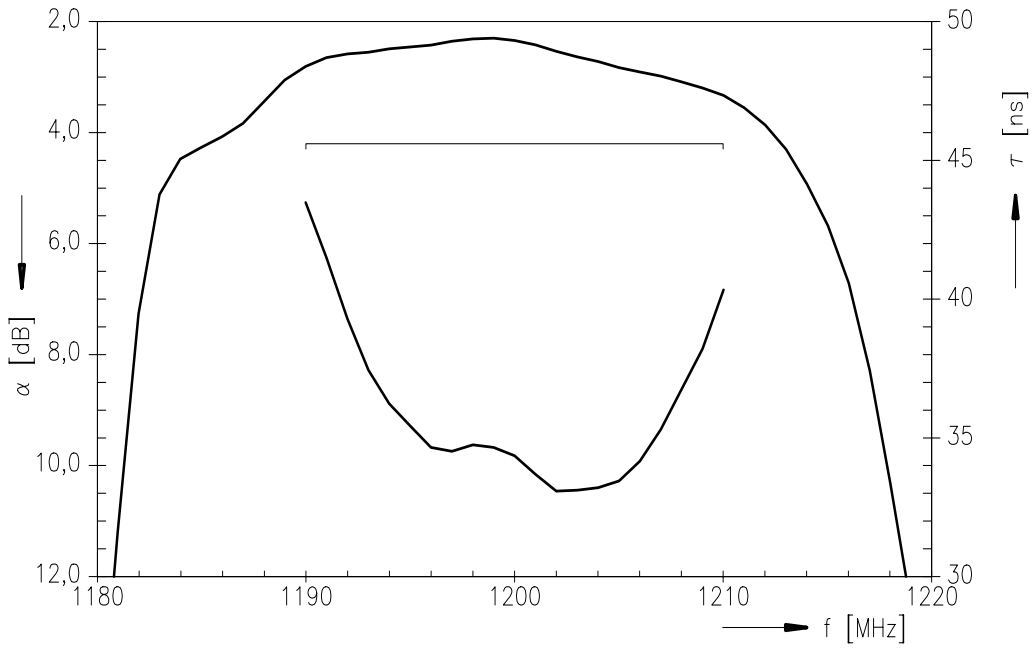
Preliminary Data



Transfer function



Transfer function (passband)





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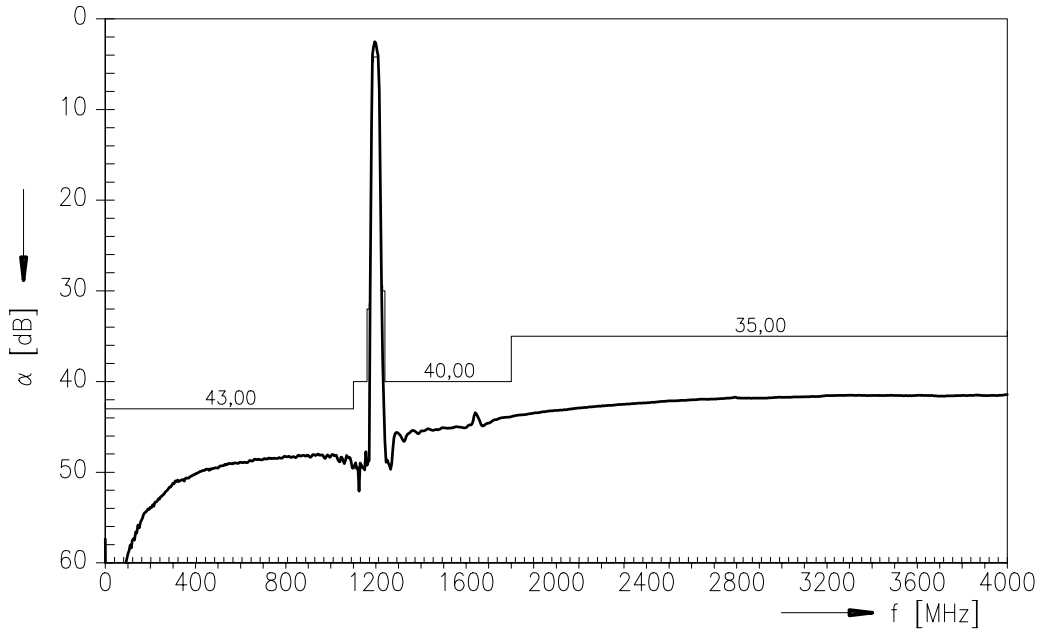
Low-Loss Filter for Mobile Communication

1200,0 MHz

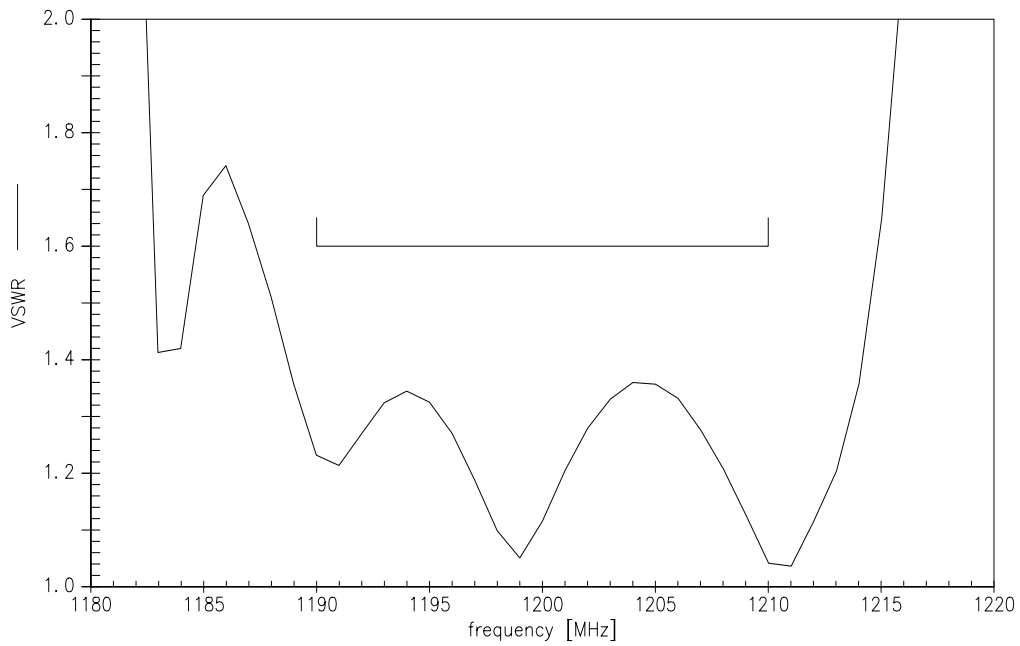
Preliminary Data



Transfer function (wideband)



VSWR





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