



SAW Components

Data Sheet B3678

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a bright, circular highlight in the center of each, giving them a three-dimensional appearance. They are set against a dark, textured background that includes a faint, glowing globe and circuitry patterns, suggesting a high-tech or electronic theme.



SAW Components

B3678

Low-Loss Filter

246,0 MHz

Data Sheet

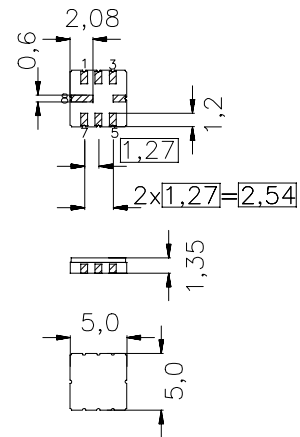
Ceramic package QCC8C

Features

- Low-loss IF filter
- Low insertion attenuation
- Low amplitude ripple
- Usable passband 1 MHz
- No matching network required for operation at 200 Ω (input) and 50 Ω (output)
- Balanced input, unbalanced output
- Ceramic package for Surface Mounted Technology (SMT)

Terminals

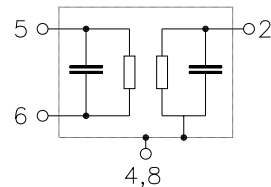
- Ni, gold-plated



Dimensions in mm, approx. weight 0,1 g

Pin configuration

5, 6	Balanced Input (200 Ω)
2	Output (50 Ω)
1	To be grounded
4, 8	Case ground
3, 7	Not connected



Type	Ordering code	Marking and Package according to	Packing according to
B3678	B39251-B3678-U310	C61157-A7-A56	F61074-V8070-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 25 / + 85	$^{\circ}\text{C}$	
Storage temperature range	T_{stg}	- 40 / + 85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
Source power	P_{s}	0	dBm	



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Characteristics

Operating temperature range: $T = -25$ to $+85^{\circ}\text{C}$
Terminating source impedance: $Z_S = 200\ \Omega$
Terminating load impedance: $Z_L = 50\ \Omega$

			min.	typ.	max.	
Nominal frequency	f_N		—	246,00	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$					
	245,5 ... 246,5 MHz		—	1,9	2,5	dB
Amplitude ripple	$\Delta\alpha$					
	245,5 ... 246,5 MHz		—	0,2	0,4	dB
in any 200 kHz span:	245,5 ... 246,5 MHz		—	0,1	0,2	dB
Group delay ripple (p-p)	$\Delta\tau$					
	245,8 ... 246,2 MHz		—	10,0	40,0	ns
	245,5 ... 246,5 MHz		—	15,0	50,0	ns
Attenuation	α_{rel}					
	100,0 ... 226,0 MHz		40	50	—	dB
	226,0 ... 236,0 MHz		7	50	—	dB
	256,0 ... 266,0 MHz		7	15	—	dB
	266,0 ... 268,0 MHz		25	40	—	dB
	268,0 ... 500,0 MHz		35	50	—	dB



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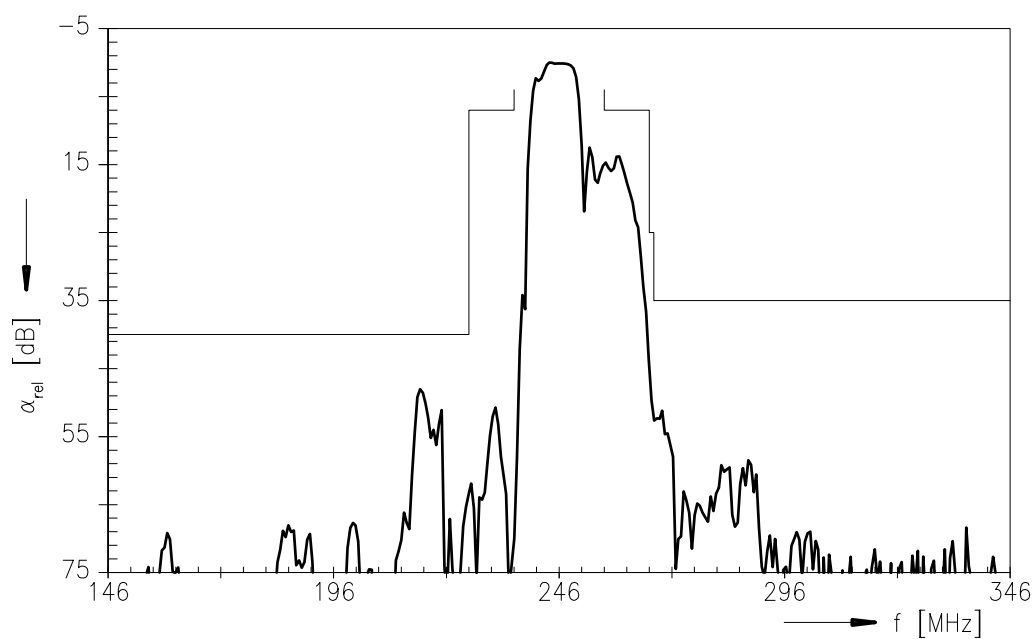
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Low-Loss Filter

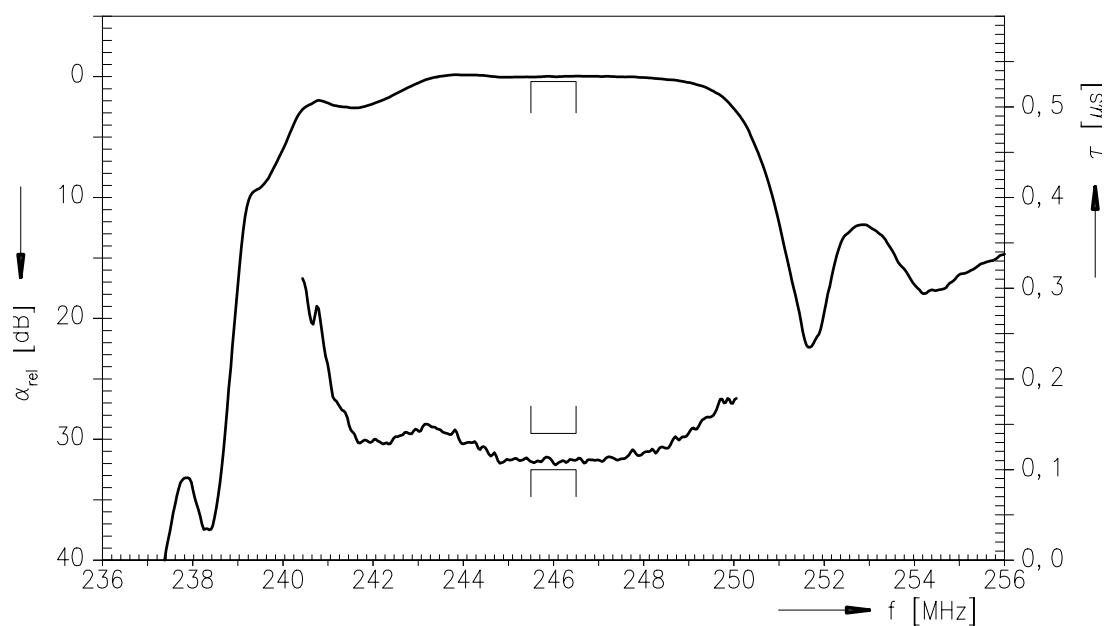
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Transfer function (reduced three port measurement)



Transfer function (reduced three port measurement)





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