EPCOS

SAW Components

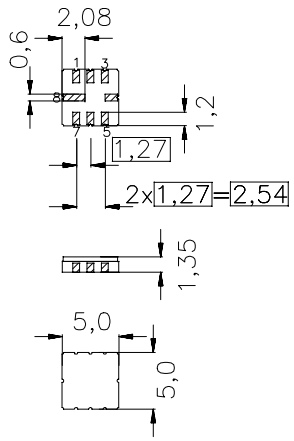
Data Sheet B3678

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 **S**urface **M**ounted **T**echnology (**SMT**)



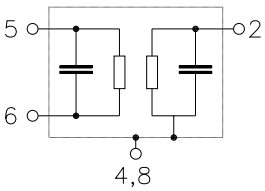
Terminals

- 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 **S**ensitive **D**evice (**ESD**)

Maximum ratings

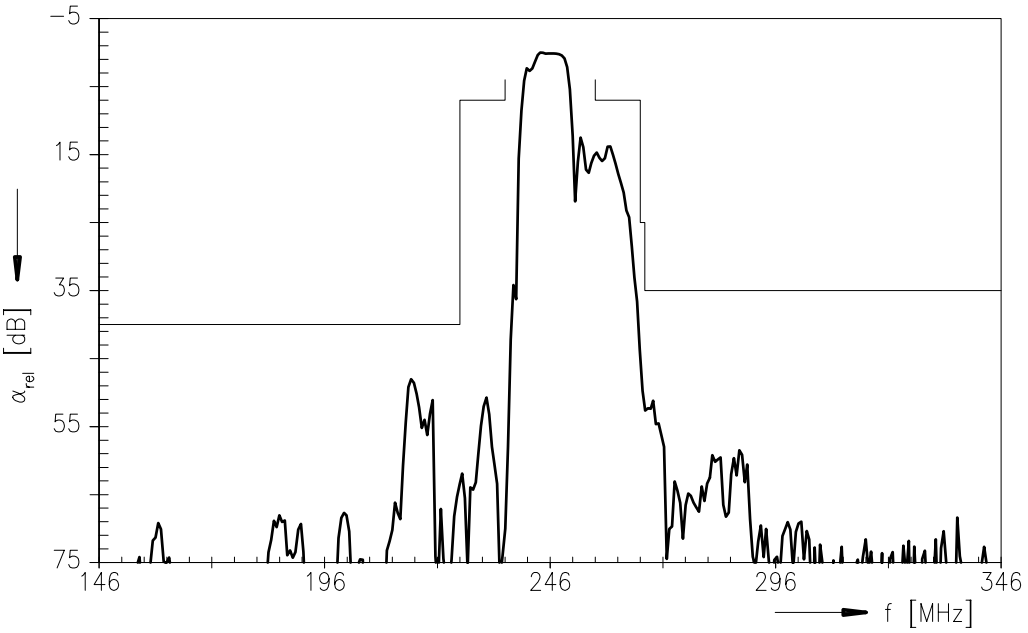
Operable temperature range	T	– 25 / + 85	˚C
Storage temperature range	T_{stg}	– 40 / + 85	˚C
DC voltage	V_{DC}	0	V
Source power	P_s	0	dBm

Characteristics

Operating temperature range: T = -25 to +85˚C
Terminating source impedance: Z_S = 200 Ω
Terminating load impedance: Z_L = 50 Ω

			min.	typ.	max.	
Nominal frequency		f_N	—	246,00	—	MHz
Maximum insertion attenuation		α_{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

Transfer function (reduced three port meaurement)



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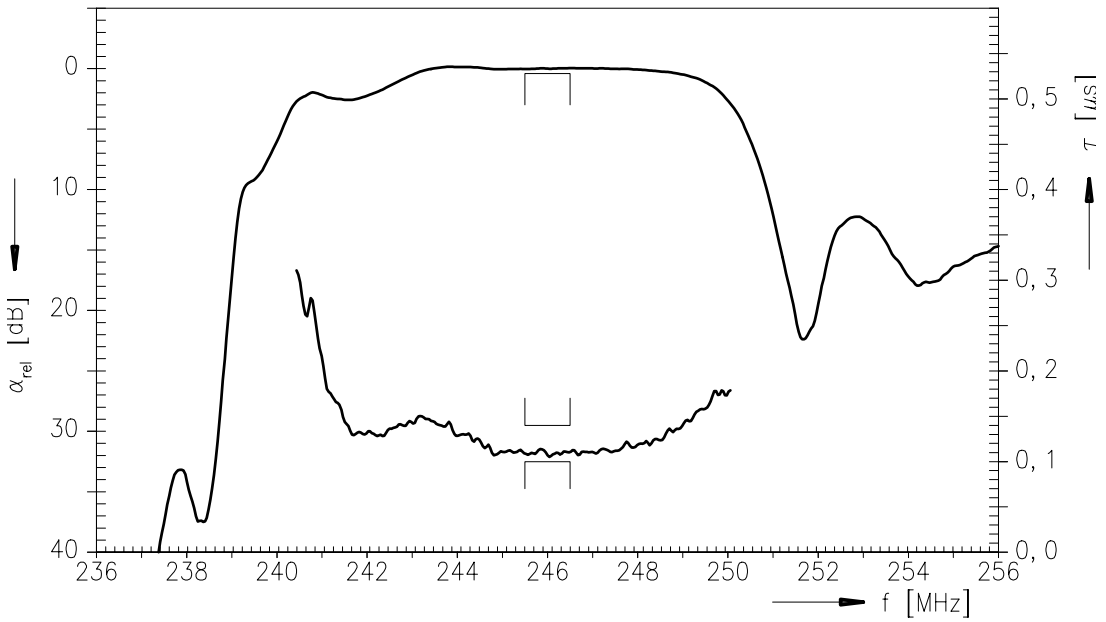

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