



SAW Components

Data Sheet B3646





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B3646

Low-Loss Filter

208,0 MHz

Data Sheet

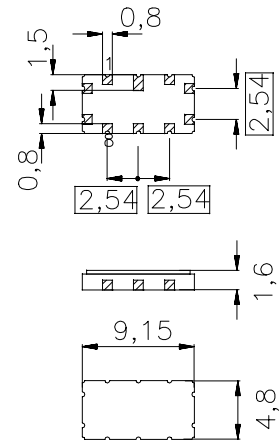
Ceramic package QCC10B

Features

- Low-loss wideband IF filter
- No matching required for operation at 50 Ω
- Package for Surface Mounted Technology (SMT)

Terminals

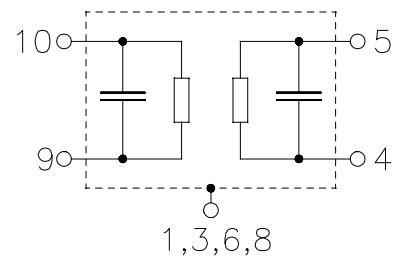
- Gold-plated



Dimensions in mm, approx. weight 0,2 g

Pin configuration

- | | |
|------------|---------------|
| 10 | Input |
| 9 | Input ground |
| 5 | Output |
| 4 | Output ground |
| 2, 7 | Ground |
| 1, 3, 6, 8 | Case – ground |



Type	Ordering code	Marking and Package according to	Packing according to
B3646	B39211-B3646-Z710	C61157-A7-A49	F61074-V8172-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 25/+ 85	°C
Storage temperature range	T_{stg}	- 40/+ 125	°C
DC voltage	V_{DC}	0	V
Source power	P_s	10	dBm


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Characteristics

Operating temperature: $T_A = -10 \dots +85 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$
 Terminating load impedance: $Z_L = 50 \text{ } \Omega$

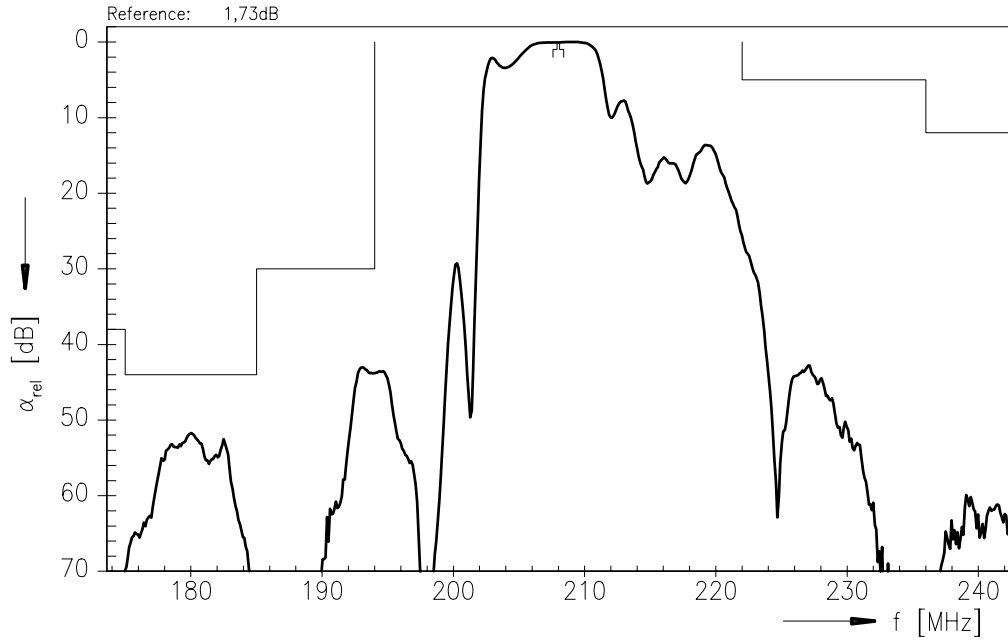
		min.	typ.	max.	
Nominal frequency	f_N	—	208,0	—	MHz
Maximum insertion attenuation	$f_N \pm 400 \text{ kHz}$ α_{\max}	1,5	2,0	3,5	dB
Passband width	$\alpha_{\text{rel}} \leq 1,0 \text{ dB}$ $B_{1,0\text{dB}}$	—	5,08	—	MHz
Amplitude ripple (p-p)	$f_N \pm 100 \text{ kHz}$ $\Delta\alpha$	—	0,03	0,2	dB
Amplitude ripple (p-p)	$f_N \pm 400 \text{ kHz}$ $\Delta\alpha$	—	0,1	1,0	dB
Absolute group delay (at f_N)	τ	—	120	300	ns
Group delay ripple (p-p)	$f_N \pm 400 \text{ kHz}$ $\Delta\tau$	—	8	30	ns
Relative attenuation (relative to α_{\max})	α_{rel}				
	10,0 MHz ... $f_N - 33,0 \text{ MHz}$	38,0	50,0	—	dB
	$f_N - 33,0 \text{ MHz}$... $f_N - 23,0 \text{ MHz}$	44,0	50,0	—	dB
	$f_N - 23,0 \text{ MHz}$... $f_N - 14,0 \text{ MHz}$	30,0	40,0	—	dB
	$f_N - 14,0 \text{ MHz}$... $f_N - 0,4 \text{ MHz}$	0,0	2,0	—	dB
	$f_N + 0,4 \text{ MHz}$... $f_N + 14,0 \text{ MHz}$	0,0	2,0	—	dB
	$f_N + 14,0 \text{ MHz}$... $f_N + 28,0 \text{ MHz}$	5,0	35,0	—	dB
	$f_N + 28,0 \text{ MHz}$... 450,0 MHz	12,0	45,0	—	dB
Input IP3 (Third order intercept point)¹⁾		45,0	—	—	dBm
VSWR	$f_N \pm 400 \text{ kHz}$	—	1,5:1	2,0:1	
Temperature coefficient of frequency	TC_f	—	-70	—	ppm/K

1) With two 10 dbm fundamental signals at 180 MHz and 208 MHz applied the third order intermodulation product at the output at 236 MHz will have less than -64 dBm.

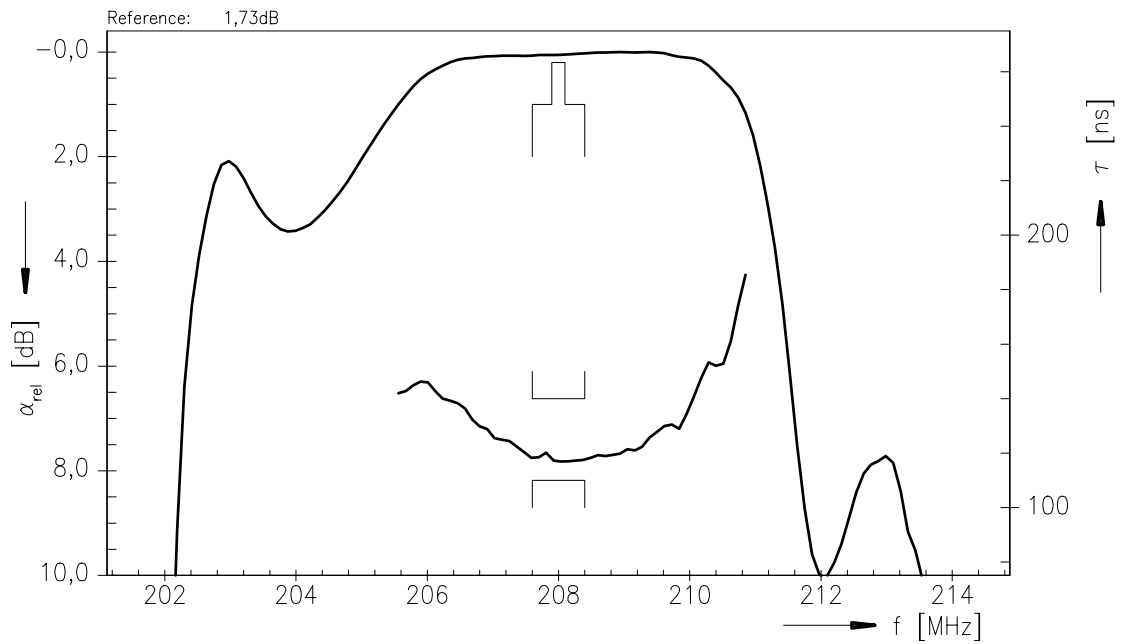


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Transfer function



Transfer function (pass band)





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Surface Acoustic Wave Components Division, SAW MC IS

P.O. Box 80 17 09, 81617 Munich, GERMANY

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