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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SAW Components

Data Sheet B3646





SAW Components B3646
Low-Loss Filter 208,0 MHz

Data Sheet

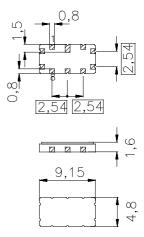
Ceramic package QCC10B

Features

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

Terminals

Gold-plated

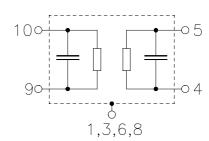


Dimensions in mm, approx. weight 0,2 g

Pin configuration

10	Input
9	Input ground
5	Output
4	Output ground
2, 7	Ground

1, 3, 6, 8 Case – ground



Туре	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	$T_{\rm stg}$	- 40/+ 125	°C
DC voltage	$V_{\rm DC}$	0	V
Source power	$P_{\rm s}$	10	dBm



SAW Components B3646

208,0 MHz **Low-Loss Filter**

Data Sheet

Characteristics

Operating temperature:

 $T_{A} = -10 \dots +85 \,^{\circ} \text{C}$ $Z_{S} = 50 \,\Omega$ $Z_{L} = 50 \,\Omega$ Terminating source impedance: Terminating load impedance:

			min.	typ.	max.	
Nominal frequency		f _N	_	208,0	_	MHz
$ \begin{tabular}{lll} \textbf{Maximum insertion attenuation} & f_N & 400 \ kHz \end{tabular} $		α_{max}	1,5	2,0	3,5	dB
Passband width	$\alpha_{rel} \leq$ 1,0 dB	B _{1,0dB}	_	5,08	_	MHz
Amplitude ripple (p-p)	$f_{\rm N} \pm 100~{\rm kHz}$	Δα	_	0,03	0,2	dB
Amplitude ripple (p-p)	$f_{ m N} \pm 400~{ m kHz}$	Δα	_	0,1	1,0	dB
Absolute group delay (at f_N)		τ	_	120	300	ns
Group delay ripple (p-p)	$f_{ m N} \pm 400~{ m kHz}$	Δτ	_	8	30	ns
Relative attenuation (relative to $α_{max}$) 10,0 MHz f_N - 33,0 MHz f_N - 33,0 MHz f_N - 23,0 MHz f_N - 23,0 MHz f_N - 14,0 MHz f_N - 14,0 MHz f_N - 0,4 MHz f_N + 0,4 MHz f_N + 14,0 MHz f_N + 14,0 MHz f_N + 28,0 MHz f_N + 28,0 MHz 450,0 MHz Input IP3 (Third order intercept point) ¹⁾ VSWR		$lpha_{rel}$	38,0 44,0 30,0 0,0 5,0 12,0 45,0	50,0 50,0 40,0 2,0 2,0 35,0 45,0 —	 	dB dB dB dB dB dB dB
Temperature coefficient of frequency		TC _f		-70		ppm/K

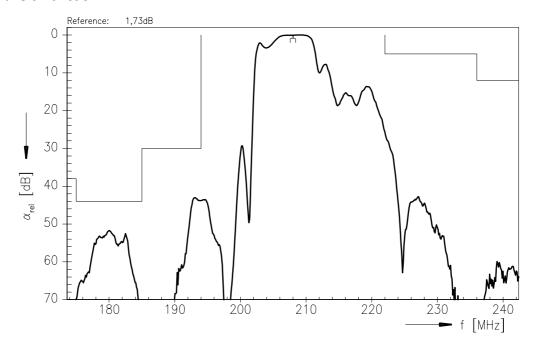
¹⁾ With two 10 dbm fundamental signals at 180 MHz and 208 MHz applied the third order intermodulation product at the output at 236 MHz will have less than -64 dBm.



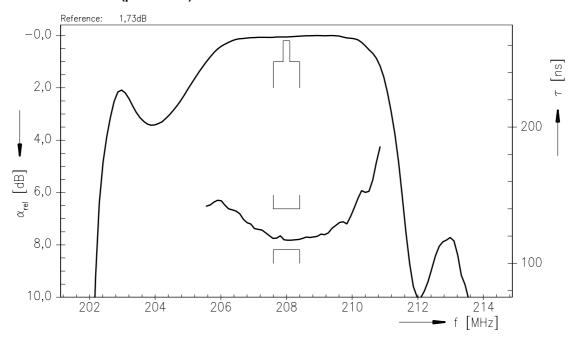
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Transfer function



Transfer function (pass band)





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Data Sheet

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