

# SAW Components

Data Sheet B3646





SAW Components	B3646
Low-Loss Filter	208,0 MHz
Data Sheet	

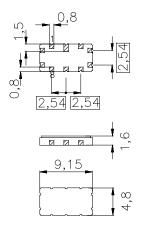
#### Ceramic package QCC10B

## Features

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

#### Terminals

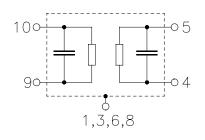
• Gold-plated



#### 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	Т	- 25/+ 85	°C
Storage temperature range	T <sub>stg</sub>	- 40/+ 125	°C
DC voltage	V <sub>DC</sub>	0	V
Source power	Ps	10	dBm

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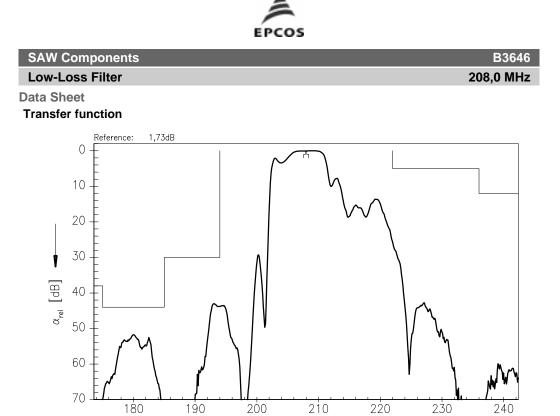
Jun 02, 2003



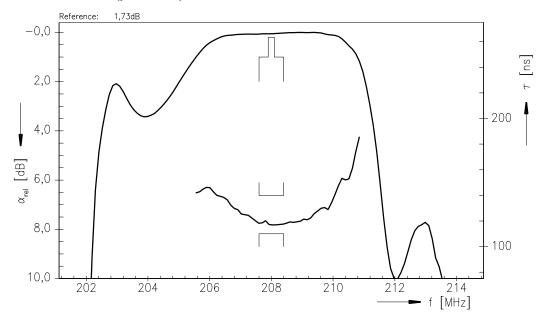
	EPG	os				
SAW Components					E	33646
Low-Loss Filter				208,0	) MHz	
Data Sheet						
Characteristics						
Operating temperature: Terminating source impedar Terminating load impedance	ice: Z <sub>S</sub>	= -10 = 50 Ω = 50 Ω				
			min.	typ.	max.	
Nominal frequency		f <sub>N</sub>	—	208,0	—	MHz
Maximum insertion attenu	<b>ation</b> f <sub>N</sub> 400 kHz	$\alpha_{\text{max}}$	1,5	2,0	3,5	dB
Passband width	$\alpha_{rel} \leq$ 1,0 dB	B <sub>1,0dB</sub>	_	5,08	_	MHz
Amplitude ripple (p-p)	<i>f</i> <sub>N</sub> ± 100 kHz	Δα	_	0,03	0,2	dB
Amplitude ripple (p-p)	$f_{\rm N} \pm 400 \ \rm kHz$	Δα	_	0,1	1,0	dB
Absolute group delay (at $f_{\rm I}$	۱)	τ	—	120	300	ns
Group delay ripple (p-p)	<i>f</i> <sub>N</sub> ± 400 kHz	Δτ	_	8	30	ns
Relative attenuation (relative 10,0 MHz $f_N - 33,0$ $f_N - 33,0$ MHz $f_N - 33,0$ $f_N - 23,0$ MHz $f_N - f_N - 23,0$ MHz $f_N - f_N - 14,0$ MHz $f_N - f_N + 0,4$ MHz $f_N + f_N + 14,0$ MHz $f_N + f_N + 14,0$ MHz $f_N + 28,0$ MHz 450 Input IP3 (Third order interconstruction of the second s	0 MHz 23,0 MHz 14,0 MHz 0,4 MHz 14,0 MHz + 28,0 MHz 0,0 MHz	α <sub>rel</sub>	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 — 1,5:1		dB dB dB dB dB dB dB
Temperature coefficient of	frequency	TC <sub>f</sub>	—	-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.





## Transfer function (pass band)



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f [MHz]

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**Data Sheet** 

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