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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 B3647





SAW Components B3647
Low-Loss Filter 125,0 MHz

Data Sheet

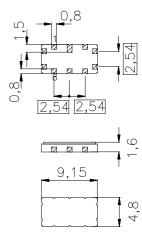
Ceramic package QCC10B

Features

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

Terminals

Gold-plated

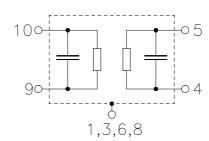


Dimensions in mm, approx. weight 0,2 g

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		
B3647	B39131-B3647-Z710	C61157-A7-A49	F61064-V8035-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 25/+ 85	°C
Storage temperature range	$T_{ m stg}$	- 40/+ 125	°C
DC voltage	$V_{\rm DC}$	0	V
Source power	P_{s}	10	dBm



SAW Components B3647

125,0 MHz **Low-Loss Filter**

Data Sheet

Characteristics

Operating temperature:

 $T_{A} = -10 - +85 \degree C$ $Z_{S} = 50 \Omega$ $Z_{L} = 50 \Omega$ Terminating source impedance: Terminating load impedance:

			min.	typ.	max.	
Nominal frequency		f_{N}	_	125,0	_	MHz
Insertion attenuation	<i>f</i> _N ± 150 kHz	α_{max}	1,2	1,5	3,2	dB
Passband width	$\alpha_{rel} \leq 1,0 \text{ dB}$	B _{1,0dB}	_	2,2	_	MHz
Amplitude ripple (p-p)	<i>f</i> _N ± 150 kHz	Δα	_	0,15	1,0	dB
Absolute group delay (at f_N)		τ	_	250	300	ns
Group delay ripple (p-p)	<i>f</i> _N ± 150 kHz	Δτ	_	20	30	ns
Relative attenuation (relative to $α_{max}$) 10,0 MHz f_N - 28,0 MHz f_N - 28,0 MHz f_N - 14,0 MHz f_N - 14,0 MHz f_N - 0,15 MHz f_N + 0,15 MHz f_N + 14,0 MHz f_N + 14,0 MHz f_N + 23,0 MHz f_N + 23,0 MHz f_N + 33,0 MHz f_N + 33,0 MHz f_N + 325,0 MHz Input IP3 (Third order intercept point) ¹⁾		$lpha_{ m rel}$	12,0 5,0 0,0 0,0 30,0 44,0 38,0	70,0 50,0 — 50,0 48,0 46,0 —	 	dB dB dB dB dB dB dB
		TC _f	_	-70		ppm/K

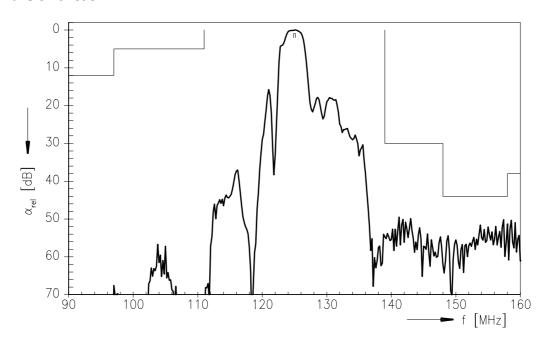
¹⁾ With two 10 dBm fundamental signals at 125 MHz and 139 MHz applied the third order intermodulation product at the output at 111 MHz will have less than -64 dBm.



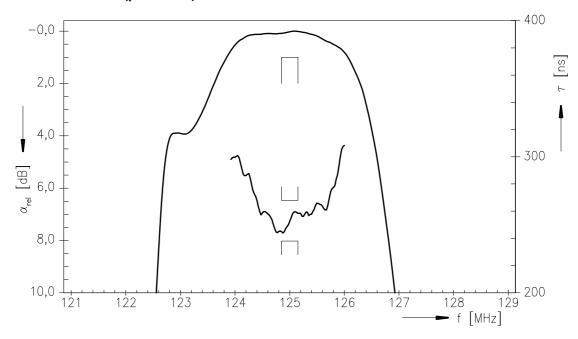
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Transfer function



Transfer function (pass band)





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Data Sheet

Published by EPCOS AG Surface Acoustic Wave Components Division, SAW MC IS P.O. Box 80 17 09, 81617 Munich, GERMANY

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