

SAW Components

Data Sheet B3647





SAW Components	B3647
Low-Loss Filter	125,0 MHz
Data Sheet	

Ceramic package QCC10B

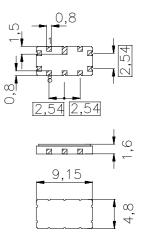


- Low-loss wideband IF filter
- No matching required for operation at 50 Ω Package for Surface Mounted Technology (SMT)

Terminals

Features

Gold-plated



05

04

Dimensions in mm, approx. weight 0,2 g

0 1,3,6,8

100

90

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	Т	- 25/+ 85	°C
Storage temperature range	T _{stg}	- 40/+ 125	°C
DC voltage	V _{DC}	0	V
Source power	Ps	10	dBm

2



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Characteristics		
Operating temperature: Terminating source impedance: Terminating load impedance:	$T_{\rm A} = -10 - +85 ^{\circ}{\rm C}$ $Z_{\rm S} = 50 \Omega$ $Z_{\rm L} = 50 \Omega$	

			min.	typ.	max.	
Nominal frequency		f _N		125,0		MHz
Insertion attenuation	<i>f_N</i> ± 150 kHz	$lpha_{max}$	1,2	1,5	3,2	dB
Passband width $\label{eq:action} \alpha_{rel} \leq 1,0 \ dB$		B _{1,0dB}	_	2,2	_	MHz
Amplitude ripple (p-p) $f_N \pm 150 ext{ kHz}$		Δα	_	0,15	1,0	dB
Absolute group delay (at f_N)		τ	_	250	300	ns
Group delay ripple (p-p) f _N ±150 kHz		Δτ	_	20	30	ns
Relative attenuation (relative 10,0 MHz f_N - 28,0 f_N - 28,0 MHz f_N - 1 f_N - 14,0 MHz f_N - 0 f_N + 0,15 MHz f_N + 1 f_N + 23,0 MHz f_N + 1 f_N + 33,0 MHz f_N + 1 Input IP3 (Third order interception VSWR	MHz 4,0 MHz ,15 MHz 14,0 MHz 23,0 MHz 33,0 MHz 325,0 MHz	α _{rel}	12,0 5,0 0,0 30,0 44,0 38,0 45 	70,0 50,0 — 50,0 48,0 46,0 —	 2,0:1	dB dB dB dB dB dB dB
Temperature coefficient of f	requency	TC _f		-70		ppm/

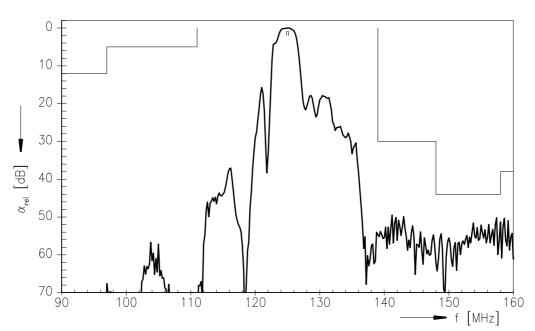
1) With two 10 dBm fundamental signals at 125 MHz and 139 MHz applied the third order intermodulation product at the output at 111 MHz will have less than -64 dBm.

3 Feb 04, 2004

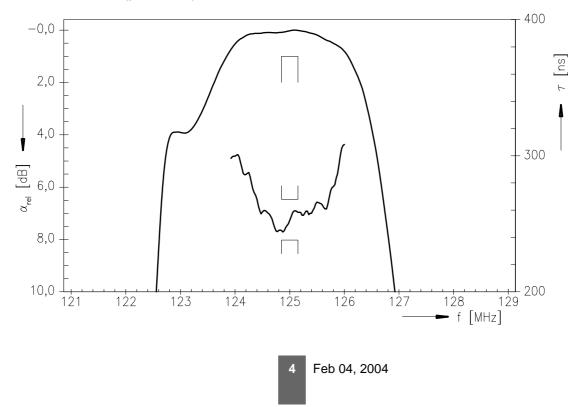


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Transfer function



Transfer function (pass band)





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This brochure replaces the previous edition.

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Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.

