

SAW Components

Preliminary Data Sheet B3860





SAW Components B3860
Low-Loss Filter 445,25 MHz

Preliminary Data Sheet

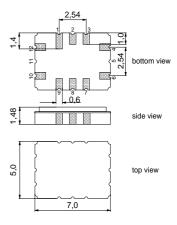
Ceramic package QCC12C

Features

- Low-loss filter
- Temperature stable
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

Terminals

Gold-plated



Dimensions in mm, approx. weight 0,2 g

Pin configuration

10	Input
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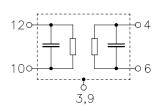
12 Input ground or bal. input

4 Output

6 Output ground or bal. output

1, 2, 3,

7, 8, 9 To be grounded



Туре	Ordering code	Marking and Package	Packing	
		according to	according to	
B3860	B39451B3860H310	C61157A0007A052	F61074V8038Z000	

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Τ	- 45/+ 85	°C	
Storage temperature range	T_{stg}	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Source power	$P_{\rm s}$	10	dBm	source impedance 75 Ω



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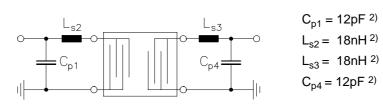
Characteristics

T = -25 ... +75 °COperating temperature:

 $Z_{\rm S}$ = 75 Ω and matching network $Z_{\rm L}$ = 75 Ω and matching network Terminating source impedance: Terminating load impedance:

		min.	typ.	max.	
Nominal frequency	f _N	_	445,25	_	MHz
Insertion attenuation at $f_{\rm N}$ (T=25 $^{\circ}$ C)		6,5	8,5	9,5	dB
Variation of insertion att. (rel. to $\alpha_\text{N})$		α_{rel} —		±0,9	dB
Frequency response					
3 dB Lower frequency	f _{L 3dB}	_	444,40	444,75	MHz
3 dB Upper frequency	f _{U 3dB}	445,75	446,40	_	MHz
35 dB Lower frequency	f _{L35dB}	442,25	442,90	_	MHz
35 dB Upper frequency	f _{U35dB}	_	448,00	448,25	MHz
Amplitude ripple (peak to adjacent valley)					
$f_{N} \pm 100 \; kHz$		_	0,3	0,5	dB
Relative attenuation					
f _N - 200,0 MHz f _N - 10,0 MHz		40	48	_	dB
$f_{\rm N}$ - 10,0 MHz $f_{\rm N}$ - 3,0 MHz		35	46	_	dB
$f_{\rm N}$ + 3,0 MHz $f_{\rm N}$ + 10,0 MHz		35	46	_	dB
$f_{\rm N}$ + 10,0 MHz $f_{\rm N}$ + 200,0 MHz		40	45	_	dB
Temperature coefficient of frequency 1)	TC _f	_	- 0,036	_	ppm/K ²
Turnover temperature	T_0	<u> </u>	25	_	°C

Matching circuit:



¹⁾ Temperature dependance of f_c : $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$

²⁾ Element values depend on PCB layout

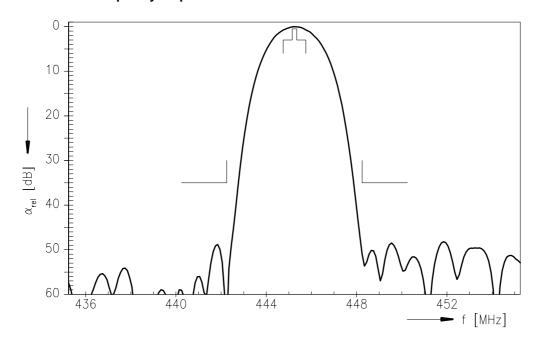


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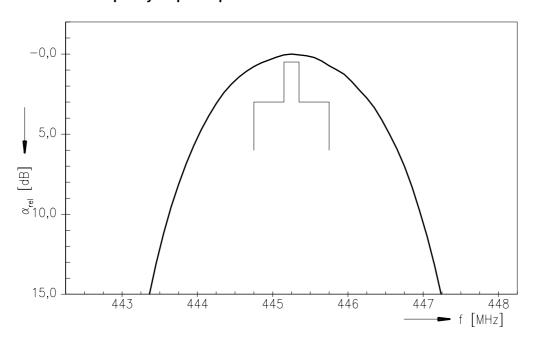
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Normalized frequency response



Normalized frequency responseq





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