

SAW Components

Data Sheet B3606





SAW Components B3606
Low-Loss Filter 140,00 MHz

Data Sheet

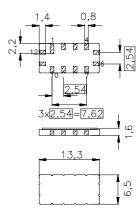
Ceramic package QCC 12

Features

- High performance IF bandpass filter
- Constant group delay
- Hermetically sealed ceramic package

Terminals

Gold plated

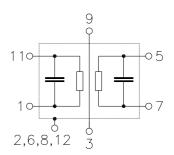


Dimensions in mm, approx. weight 0,4 g

Pin configuration

11	Input or balanced input
1	Input - ground or balanced input
5	Output or balanced output
7	Output - ground or bal. output
2, 6, 8, 12	Case ground
3, 4, 9, 10	Ground

Note: Input and output port can be mixed up



Туре	Ordering code	Marking and Package according to	Packing according to
B3606	B39141-B3606-Z510	C61157-A7-A55	F61074-V8026-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 40/+ 85	°C	
Storage temperature range	$T_{\rm stg}$	- 55/+ 125	°C	
DC voltage	$V_{\rm DC}$	0	V	
Source power	P_{s}	10	dBm	source impedance 50 Ω



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Characteristics

 $T = -40^{\circ}C ... 85^{\circ}C$ Operating temperature:

Terminating source impedance: $Z_{\rm S} = 50~\Omega$ and matching circuit Terminating load impedance: $Z_{\rm L} = 50~\Omega$ and matching circuit TTI=Triple transit signal included; TTE=Triple transit signal excluded Terminating source impedance: Terminating load impedance:

		min.	typ.	max.	
Center frequency	f _C	139,75	140,00	140,25	MHz
(Center between 6dB points; @ T = 25°C)					
Insertion attenuation at f _C		_	11,0	13,0	dB
Amplitude ripple (TTI, p-p)					
130,0 150,0 MHz	Δα		0,6	0,9	dB
Pass bandwidth					
$\alpha_{rel} \leq 3 dB$	B_{3dB}	_	25,5	_	MHz
Phase ripple (TTE, p-p)	Δφ				
130,0 150,0 MHz		_	8,0	9,5	۰
131,0 149,0 MHz		_	6,0	7,0	۰
Relative attenuation (relative to α_C)	$lpha_{rel}$				
100,0 108,0 MHz		40,0	50,0	_	dB
108,0 116,0 MHz		40,0	48,0	_	dB
116,0 121,5 MHz		40,0	44,0	_	dB
158,5 164,0 MHz		37,0	40,0		dB
164,0 172,0 MHz		39,0	42,0		dB
172,0 180,0 MHz		40,0	47,0		dB
Reflected wave signal suppression					
0,72 μs 0,62 μs before main pulse		45,0	50,0	_	dB
Reflected wave signal suppression					
0,62 μs 2,88 μs after main pulse		33,0	37,0	_	dB
Group delay at $f_{\mathbb{C}}$	τ_{C}	0,71	0,72	0,73	μs
Group delay ripple (TTE, p-p)	Δau				
130,0 150,0 MHz			15,0		ns
Temperature coefficient of frequency	TC_{f}	_	– 87	_	ppm/K

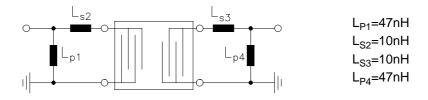


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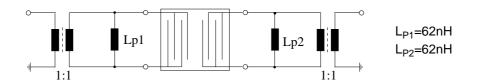
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Matching circuit: unbalanced - unbalanced



Matching circuit: balanced - balanced



Note: Component values depend on PCB layout.

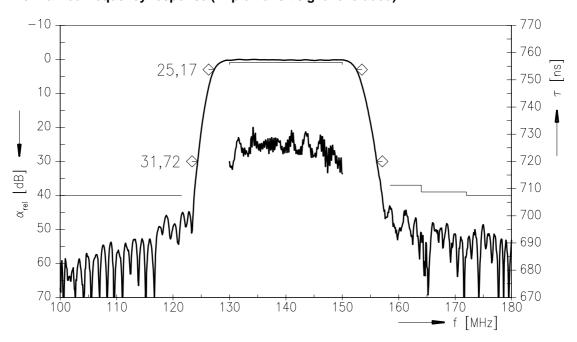


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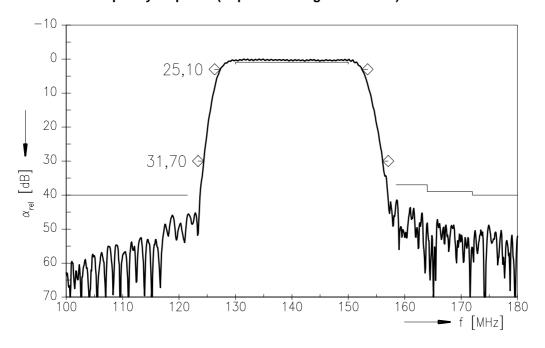
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Normalized frequency response (Triple transit signal excluded)



Normalized frequency response (Triple transit signal included)



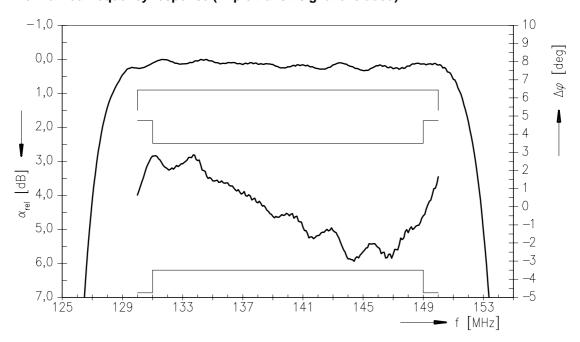


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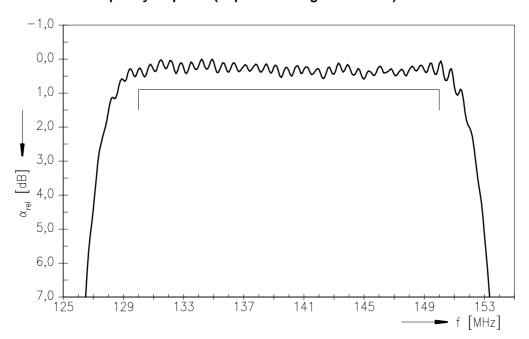
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Normalized frequency response (Triple transit signal excluded)



Normalized frequency response (Triple transit signal included)



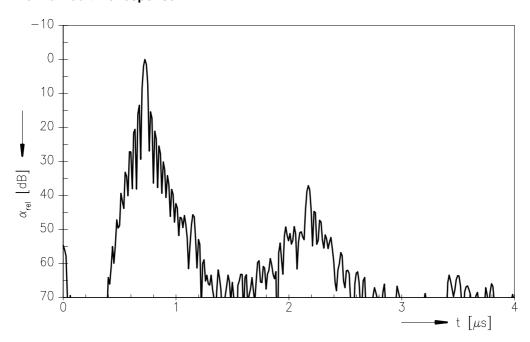


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Normalized time response





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Attachment

1) Pyroelectric pulse amplitude < 50 mV.



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Published by EPCOS AG Surface Acoustic Wave Components Division, SAW MC IS PD P.O. Box 80 17 09, D-81617 München

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