

Data Sheet B3606





SAW Components B3606
Low-Loss Filter 140,00 MHz

Data Sheet

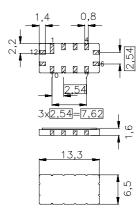
Ceramic package QCC 12

Features

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

Terminals

Gold plated

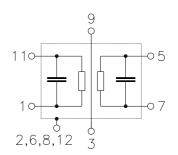


Dimensions in mm, approx. weight 0,4 g

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	Т	- 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



140,00 MHz **Low-Loss Filter**

Data Sheet

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:

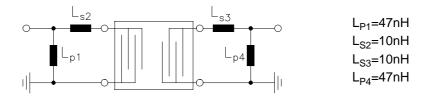
		min.	typ.	max.	
Center frequency	$f_{\mathbb{C}}$	139,75	140,00	140,25	MHz
(Center between 6dB points; @ T = 25°C)					
Insertion attenuation at f _C			11,0	13,0	dB
Amplitude ripple (TTI, p-p)					
130,0 150,0 MHz		_	0,6	0,9	dB
Pass bandwidth					
$\alpha_{rel} \leq 3 dB$	B_{3dB}		25,5	_	MHz
Phase ripple (TTE, p-p)					
130,0 150,0 MHz		_	8,0	9,5	0
131,0 149,0 MHz			6,0	7,0	۰
Relative attenuation (relative to $\alpha_{\text{C}})$	α_{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					
$0.72~\mu s \dots 0.62~\mu s$ 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



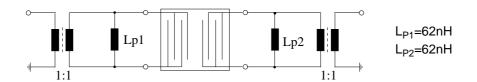
Low-Loss Filter 140,00 MHz

Data Sheet

Matching circuit: unbalanced - unbalanced



Matching circuit: balanced - balanced



Note: Component values depend on PCB layout.

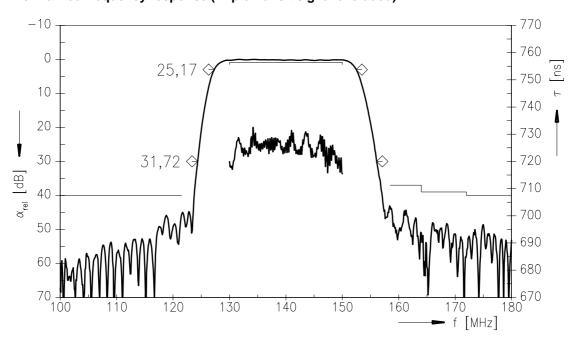


SAW Components B3606

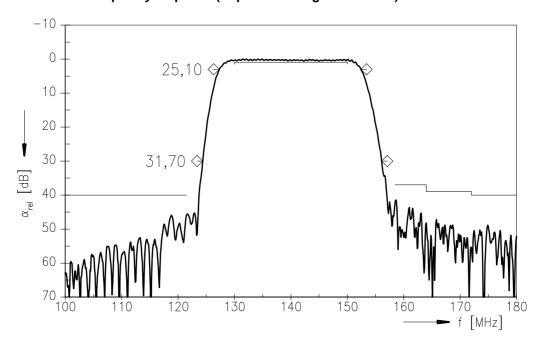
Low-Loss Filter 140,00 MHz

Data Sheet

Normalized frequency response (Triple transit signal excluded)



Normalized frequency response (Triple transit signal included)

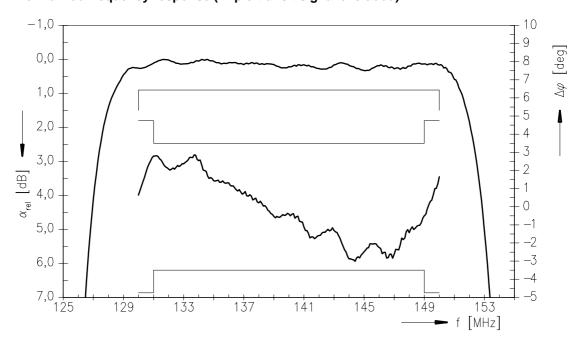




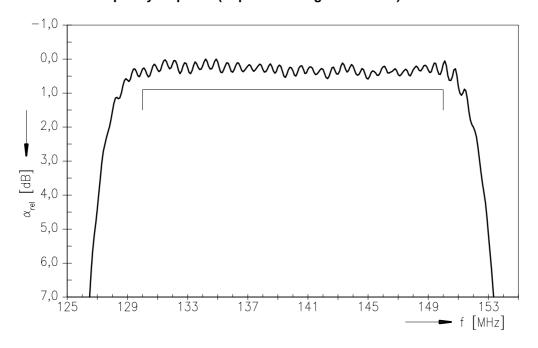
Low-Loss Filter 140,00 MHz

Data Sheet

Normalized frequency response (Triple transit signal excluded)



Normalized frequency response (Triple transit signal included)

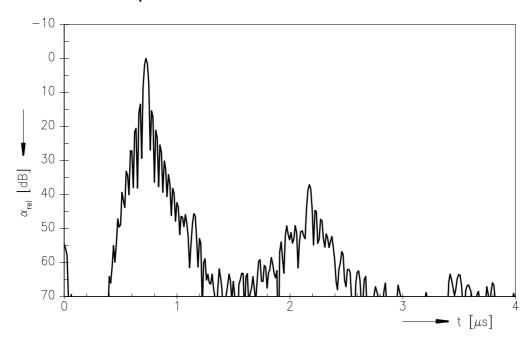




Low-Loss Filter 140,00 MHz

Data Sheet

Normalized time response





Low-Loss Filter 140,00 MHz

Data Sheet

Attachment

1) Pyroelectric pulse amplitude < 50 mV.



Low-Loss Filter 140,00 MHz

Data Sheet

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

© EPCOS AG 2001. All Rights Reserved.

As far as patents or other rights of third parties are concerned, liability is only assumed for components per se, not for applications, processes and circuits implemented within components or assemblies.

The information describes the type of component and shall not be considered as assured characteristics.

Terms of delivery and rights to change design reserved.

For questions on technology, prices and delivery please contact the sales offices of EPCOS AG or the international representatives.

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