



SAW Components

Data Sheet B3607

Data Sheet

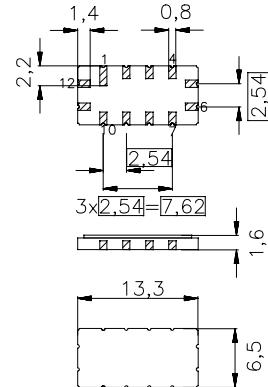


Features

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

Terminals

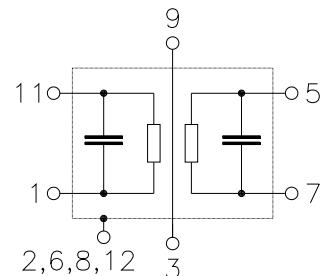
- Gold plated



Dimensions in mm, approx. weight 0,4 g

Pin configuration

11	Input
1	Input - ground
5	Output
7	Output - ground
2, 6, 8, 12	Case - ground
3, 9	Shield - ground
4, 10	Not connected



Type	Ordering code	Marking and Package according to	Packing according to
B3607	B39141-B3607-Z510	C61157-A7-A55	F61074-V8026-Z000

Electrostatic Sensitive Device (ESD)
Maximum ratings

Operable temperature range	T	- 40/+ 85	°C	
Storage temperature range	T_{stg}	- 40/+ 85	°C	
DC voltage	V_{DC}	0	V	
Source power	P_s	10	dBm	source impedance 50 Ω

SAW Components
B3607
Low-Loss Filter
140,00 MHz
Data Sheet
Characteristics

Operating temperature:

 $T = 25 \text{ } ^\circ\text{C}$

Terminating source impedance:

 $Z_S = 50 \text{ } \Omega$ and matching circuit

Terminating load impedance:

 $Z_L = 50 \text{ } \Omega$ and matching circuit

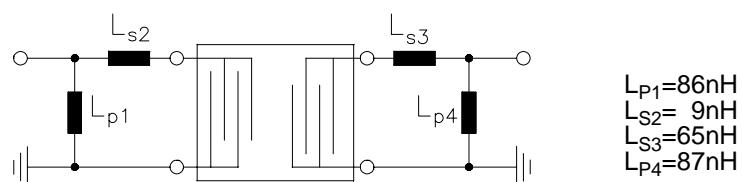
Group delay aperture

200 kHz

			min.	typ.	max.	
Center frequency (Center between 6dB points)	f_C	139,75	140,00	140,25	MHz	
Insertion attenuation at f_C	α_C	—	6,0	7,5	dB	
Amplitude ripple (p-p) 137,50 ... 142,50 MHz	$\Delta\alpha$	—	0,7	1,0	dB	
Phase ripple (p-p) 137,50 ... 142,50 MHz	$\Delta\phi$	—	5	10	°	
Pass bandwidth						
$\alpha_{\text{rel}} \leq 1 \text{ dB}$	$B_{1\text{dB}}$	5,8	6,1	—	MHz	
$\alpha_{\text{rel}} \leq 3 \text{ dB}$	$B_{3\text{dB}}$	6,9	7,1	—	MHz	
$\alpha_{\text{rel}} \leq 40 \text{ dB}$	$B_{40\text{dB}}$	—	10,5	11,1	MHz	
Relative attenuation (relative to α_C)	α_{rel}					
100,00 ... 134,00 MHz		40	47	—	dB	
146,00 ... 180,00 MHz		40	46	—	dB	
Group delay at f_C	τ_C	—	1,35	—	μs	
Group delay ripple (p-p) 137,50 ... 142,50 MHz	$\Delta\tau$	—	80	150	ns	
Temperature coefficient of frequency	TC_f	—	—87	—	ppm/K	

Matching circuit:

Note: Component values depend upon PCB layout





SAW Components

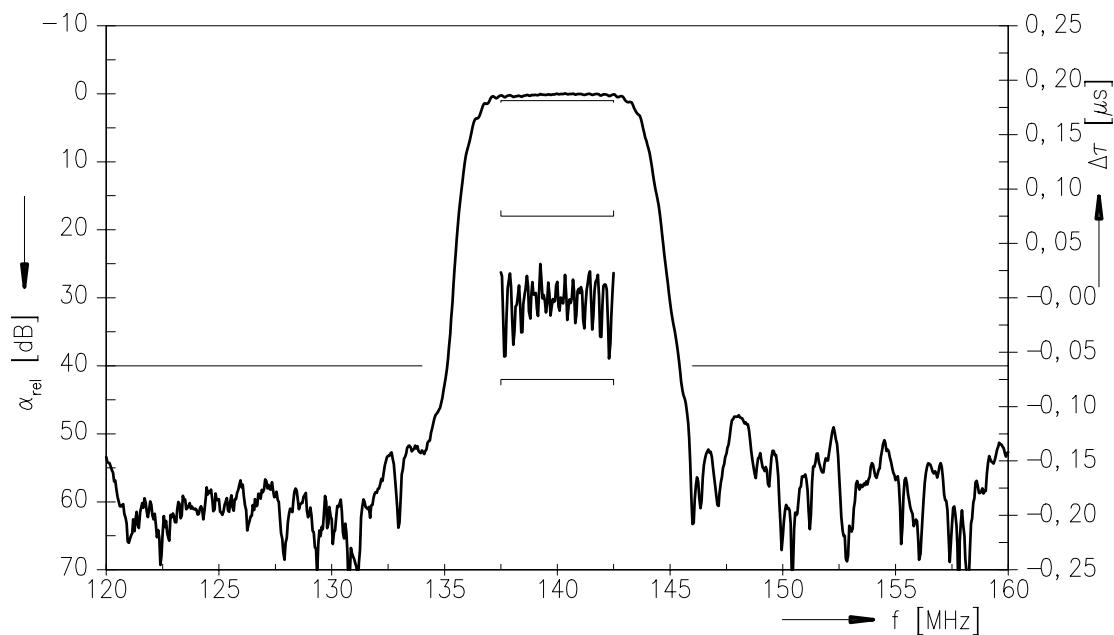
B3607

Low-Loss Filter

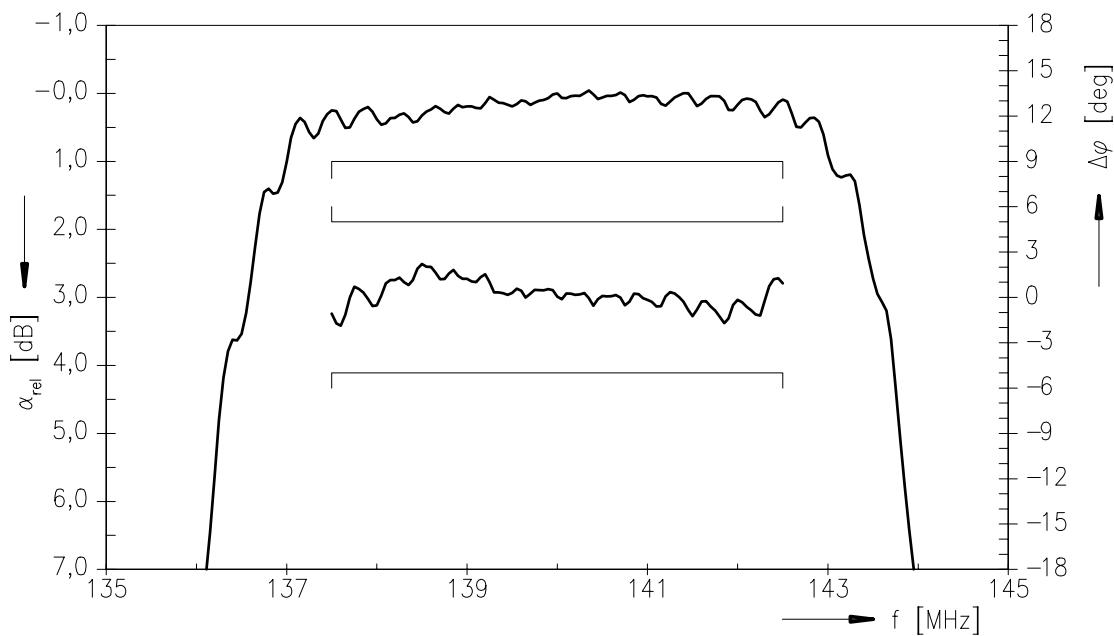
140,00 MHz

Data Sheet

Normalized frequency response



Normalized frequency response





SAW Components

B3607

Low-Loss Filter

140,00 MHz

Data Sheet

Attachment

1) Pyroelectric pulse amplitude < 50 mV.



SAW Components

B3607

Low-Loss Filter

140,00 MHz

Data Sheet

Published by EPCOS AG

Surface Acoustic Wave Components Division, OFW E NK

P.O. Box 80 17 09, D-81617 München

© EPCOS AG 1999. 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.