



SAW filters for infrastructure systems

Series/Type: B3607

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39141B3607Z510	B39141B5093Z510	2011-04-01	2011-06-30	2011-09-30

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SAW Components

B3607

Low-Loss Filter

140,00 MHz

Data Sheet

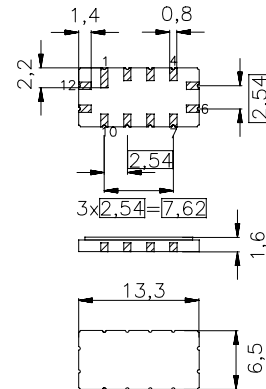
Ceramic package QCC12

Features

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

Terminals

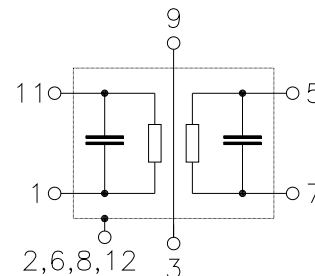
- Gold plated



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	To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B3607	B39141-B3607-Z510	C61157-A7-A55	F61074-V8163-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



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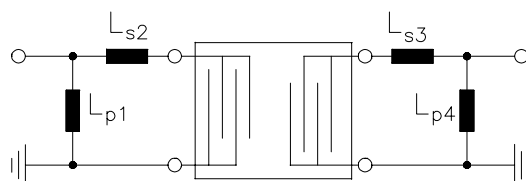
Characteristics

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

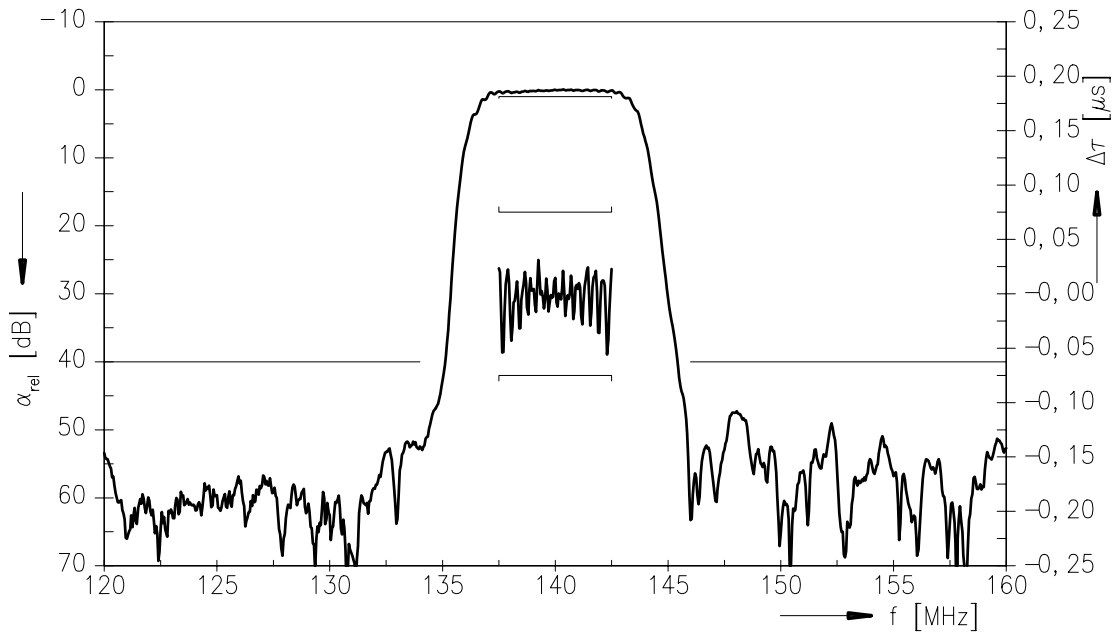
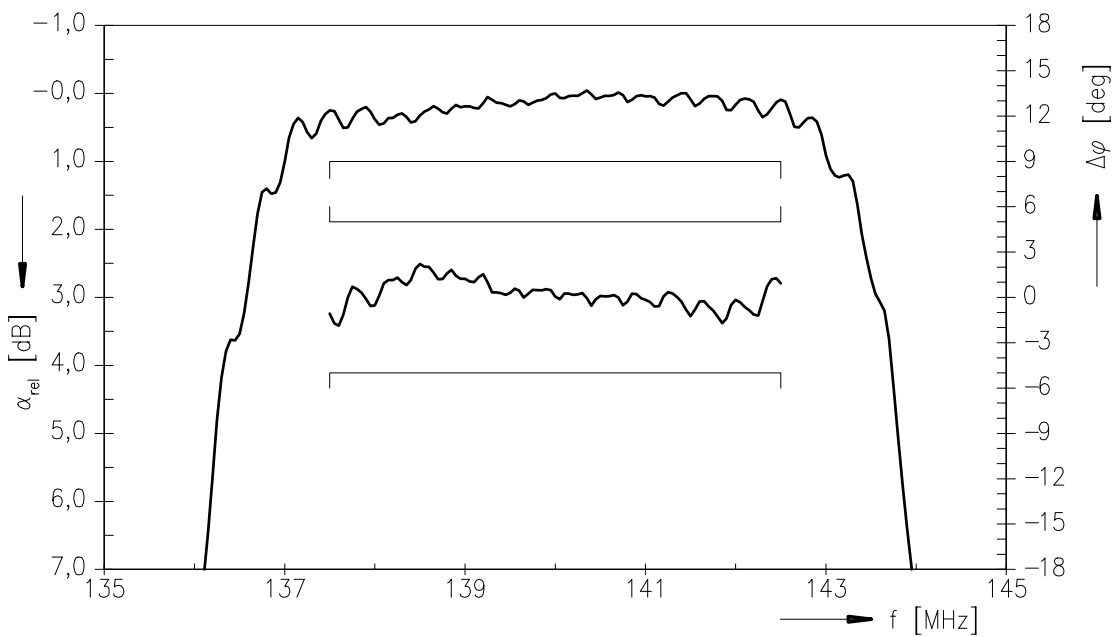
		min.	typ.	max.	
Center frequency	f_C	139,75	140,00	140,25	MHz
(Center between 6dB points)					
Insertion attenuation at f_C	α_C	—	6,0	7,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
137,50 ... 142,50 MHz		—	0,7	1,0	dB
Phase ripple (p-p)	$\Delta\phi$				
137,50 ... 142,50 MHz		—	5	10	$^{\circ}$
Pass bandwidth					
$\alpha_{rel} \leq 1\text{ dB}$	B_{1dB}	5,8	6,1	—	MHz
$\alpha_{rel} \leq 3\text{ dB}$	B_{3dB}	6,9	7,1	—	MHz
$\alpha_{rel} \leq 40\text{ dB}$	B_{40dB}	—	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)	$\Delta\tau$				
137,50 ... 142,50 MHz		—	80	150	ns
Temperature coefficient of frequency	TC_f	—	-87	—	ppm/K

Matching circuit:

Note: Component values depend upon PCB layout



$L_{P1} = 47\text{ nH}$
 $L_{S2} = 27\text{ nH}$
 $L_{S3} = 39\text{ nH}$
 $L_{P4} = 68\text{ nH}$

**SAW Components****B3607****Low-Loss Filter****140,00 MHz****Data Sheet****Normalized frequency response****Normalized frequency response**



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Attachment

1) Pyroelectric pulse amplitude < 50 mV.



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