



SAW Components

Data Sheet B3607





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Low-Loss Filter

140,00 MHz

Data Sheet

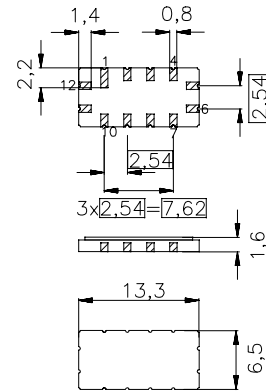
Ceramic package **QCC12**

Features

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

Terminals

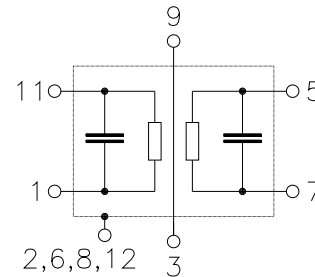
- Gold plated



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



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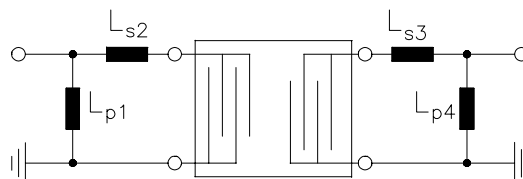
Characteristics

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 (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	$^\circ$
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) 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

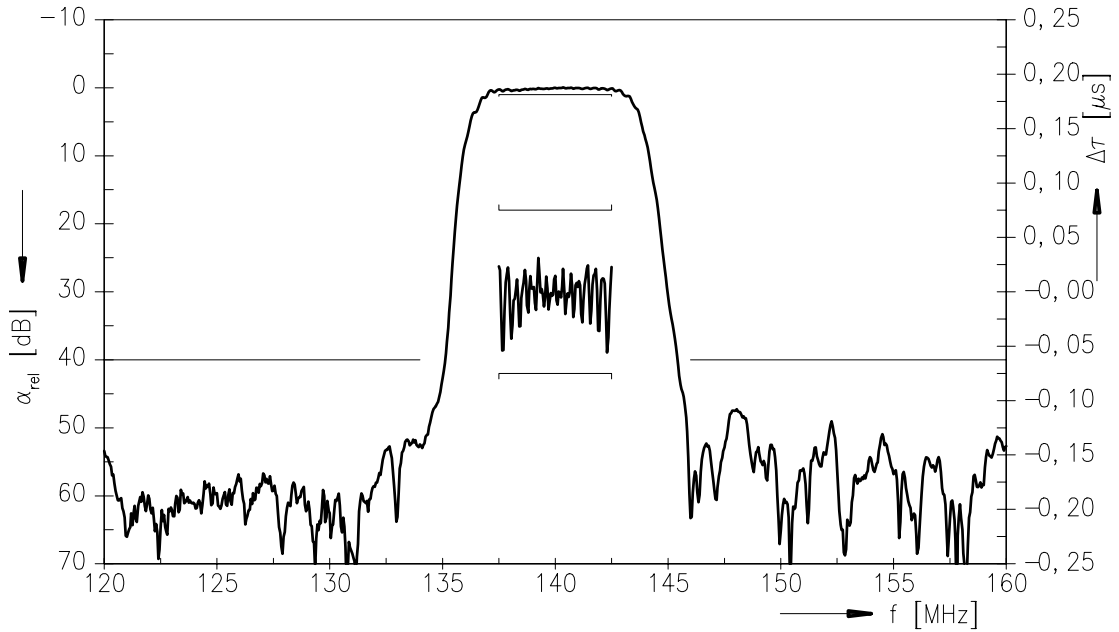


$L_{P1} = 47 \text{ nH}$
 $L_{S2} = 27 \text{ nH}$
 $L_{S3} = 39 \text{ nH}$
 $L_{P4} = 68 \text{ nH}$

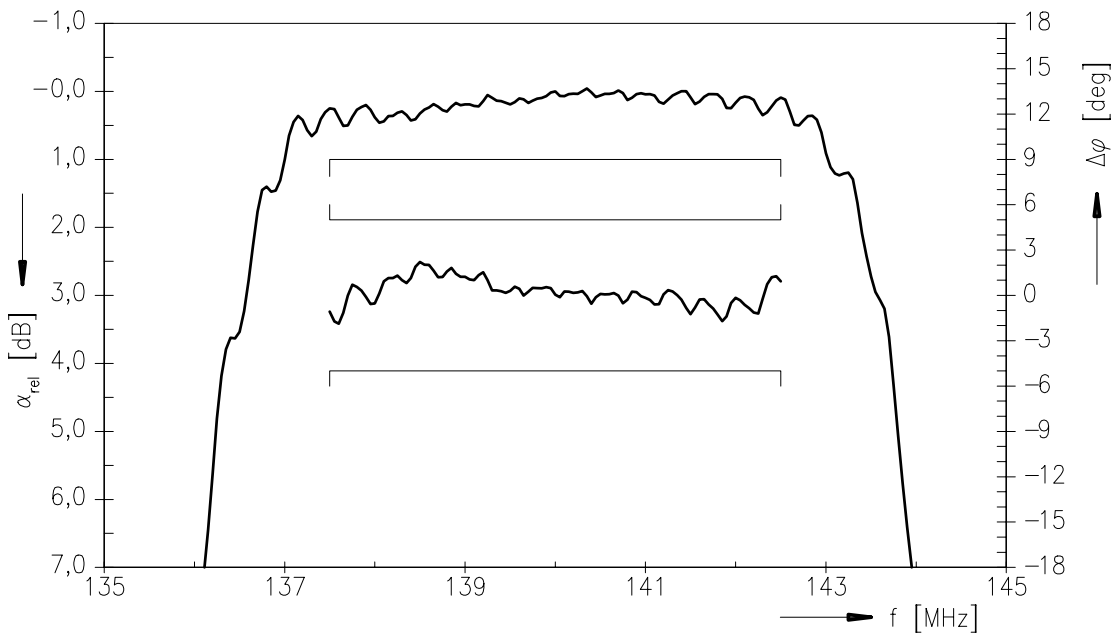


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Normalized frequency response



Normalized frequency response





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Attachment

1) Pyroelectric pulse amplitude < 50 mV.



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