



SAW Components

Data Sheet B3893





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B3893

Low-Loss Filter

248,6 MHz

Data Sheet

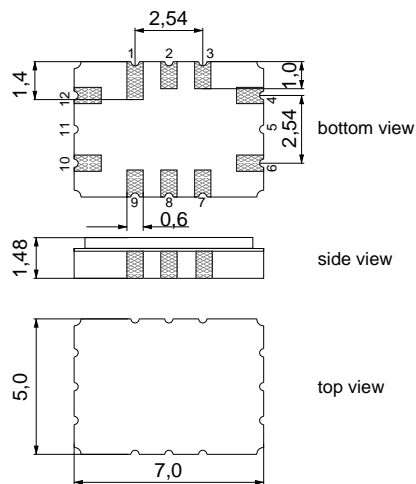
Ceramic package QCC12C

Features

- Low-loss IF filter for GSM-EDGE base station
- Clean-up Filter
- Ceramic SMD package

Terminals

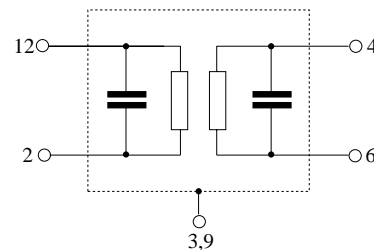
- Gold plated



Dimensions in mm, approx. weight 0,2 g

Pin configuration

- | | |
|-------------|-----------------|
| 12 | Input |
| 2 | Input ground |
| 4, 6 | balanced output |
| 1, 7, 8, 10 | to be grounded |
| 3, 9 | Case ground |



Type	Ordering code	Marking and Package according to	Packing according to
B3893	B39251-B3893-H310	C61157-A7-A95	F61074-V8170-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	-30 / +80	°C	
Storage temperature range	T_{stg}	-40 / +85	°C	
DC voltage	V_{DC}	0	V	
Source power	P_s	10	dBm	
Source power	P_s	20	dBm	$t \leq 100$ hours



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Characteristics

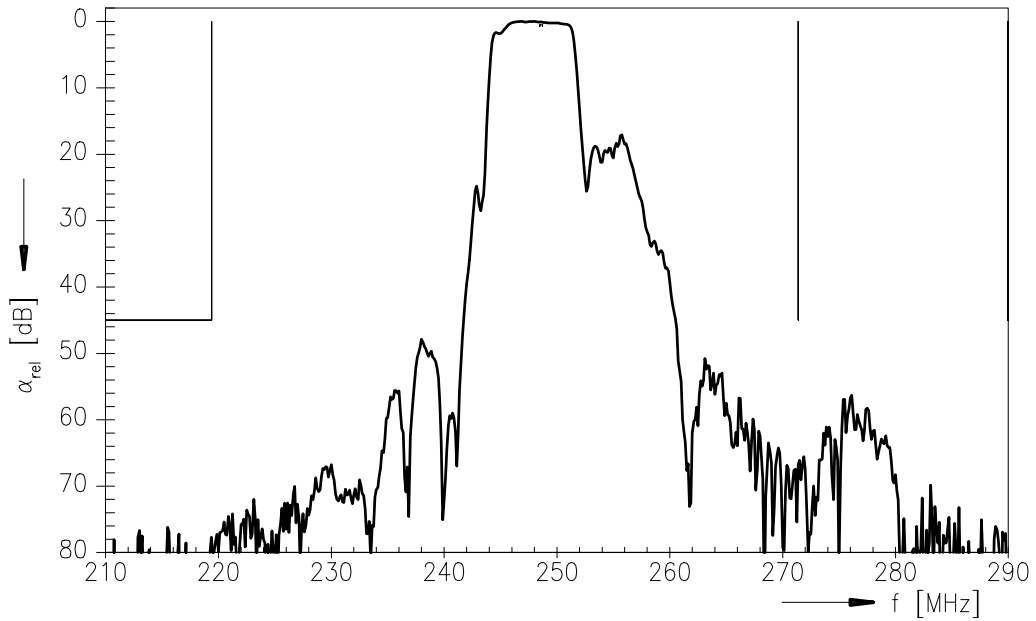
Operating temperature: $T = -20\text{ °C to }80\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 200\ \Omega$

		min.	typ.	max.	
Nominal frequency	f_N	—	248,6	—	MHz
Minimum insertion attenuation (including losses in matching network)	α_{\min}	—	1,3	3,5	dB
Passband width					
	$\alpha_{\text{rel}} \leq 3,0\text{ dB}$	$B_{3,0\text{dB}}$	5,0	7,2	— MHz
Amplitude ripple (p-p)					
	$f_N \pm 120,0\text{ kHz}$	$\Delta\alpha$	—	0,2	0,5 dB
Group delay ripple (p-p)					
	$f_N \pm 120,0\text{ kHz}$	$\Delta\tau$	—	30	100 ns
Relative attenuation (relative to α_{\min})					
10,0 MHz ... $f_N - 29,2\text{ MHz}$	α_{rel}	45	70	—	dB
@ $f_N + 22,80\text{ MHz}$		45	60	—	dB
@ $f_N + 52,00\text{ MHz}$		45	70	—	dB
@ $f_N + 74,80\text{ MHz}$		45	70	—	dB
@ $f_N + 104,0\text{ MHz}$		45	55	—	dB
@ $f_N + 126,8\text{ MHz}$		45	70	—	dB
Temperature coefficient of frequency	TC_f	—	-36	—	ppm/K

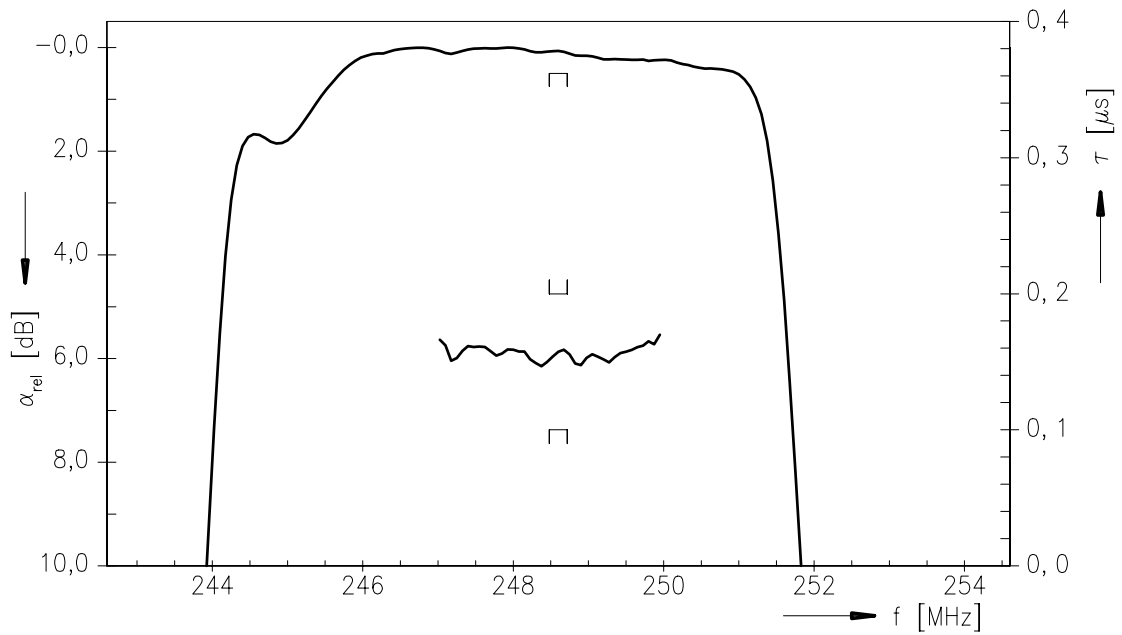


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Normalized transfer function:



Normalized transfer function (pass band):





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Published by EPCOS AG

Surface Acoustic Wave Components Division, SAW MC IS

P.O. Box 80 17 09, 81617 Munich, GERMANY

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