

SAW Components

Data Sheet B3893





SAW Components	B3893
Low-Loss Filter	248,6 MHz

Data Sheet

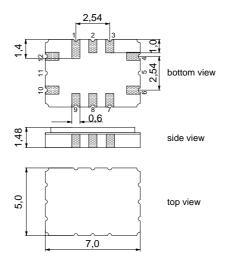
Ceramic package QCC12C

Features

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

Terminals

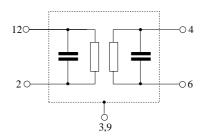
Gold plated



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



Туре	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	Τ	-30 / +80	°C	
Storage temperature range	$T_{\rm stg}$	-40 / +85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Source power	P_{s}	10	dBm	
Source power	P_{s}	20	dBm	t <= 100 hours



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Characteristics

Operating temperature: $T = -20 \,^{\circ}\text{C}$ to 80 $^{\circ}\text{C}$

Terminating source impedance: $Z_{\rm S} = 50~\Omega$ Terminating load impedance: $Z_{\rm L} = 200~\Omega$

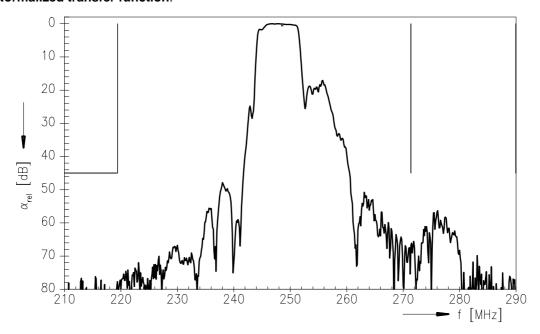
		min.	typ.	max.	
Nominal frequency	f _N	_	248,6	_	MHz
Minimum insertion attenuation (including losses in matching network)		_	1,3	3,5	dB
Passband width $\alpha_{\text{rel}} \leq 3.0 \text{ dB}$	B _{3,0dB}	5,0	7,2	_	MHz
Amplitude ripple (p-p) $f_{\rm N} \pm 120,0 \; {\rm kH}$	Δα z	_	0,2	0,5	dB
Group delay ripple (p-p) $f_{\rm N} \pm 120,0~{\rm kH}$	Δτ z	_	30	100	ns
Relative attenuation (relative to α_{min})	$lpha_{rel}$	4-			
10,0 MHz f _N - 29,2 MHz		45	70	_	dB
@ f _N + 22,80 MHz		45 45	60	_	dB
@ f _N + 52,00 MHz @ f _N + 74,80 MHz		45 45	70 70		dB dB
@ $f_N + 74,00 \text{ N/Hz}$		45 45	55		dВ
@ f _N + 126,8 MHz		45	70	_	dB
Temperature coefficient of frequency	TC _f	_	-36	_	ppm/K



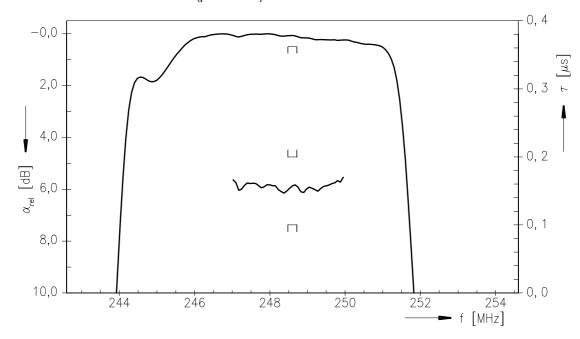
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Normalized transfer function:



Normalized transfer function (pass band):





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