

SAW Components

Data Sheet B3684





SAW Components	B3684
Low-Loss Filter	387,5 MHz

Data Sheet

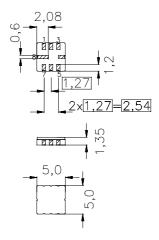
Features

- Low-loss filter (WBN) for Trunked Radio
- Usable bandwidth 5 MHz
- \bullet No matching required for operation at 50 Ω
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

Terminals

Gold-plated

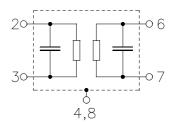
Ceramic package QCC8C



Dimensions in mm, approx. weight 0,1 g

Pin configuration

2	Input
3	Input ground
6	Output
7	Output ground
1, 5	Ground
4, 8	Case ground



Туре	Ordering code	Marking and Package according to	Packing according to			
B3684	B39391-B3684-U310	C61157-A7-A56	F61064-V8070-Z000			

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 25/+ 75	°C	
Storage temperature range	$T_{\rm stg}$	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Source power	P_{s}	10	dBm	source impedance 50 Ω



SAW Components B3684

Low-Loss Filter 387,5 MHz

Data Sheet

Characteristics

Operating temperature: $T = +15 ... +35 ^{\circ}C$

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

		min.	typ.	max.	
Nominal frequency	f_{N}	_	387,5	_	MHz
Maximum insertion attenuation	α_{max}				
385,0 MHz 390,0 MHz			3,2	3,5	dB
Amplitude ripple (p-p)	$\Delta \alpha$				
385,0 MHz 390,0 MHz		_	0,9	1,4	dB
Return loss (Input and Output)					
385,0 MHz 390,0 MHz		11,0	12,5	_	dB
Group delay	τ				
385,0 MHz 390,0 MHz			140	180	ns
Deviation from lin. phase (in 1 MHz bandwidth) Δφ				
385,0 MHz 390,0 MHz		_	0,9	5	•
Absolute attenuation	α_{abs}				
45,0 MHz 81,5 MHz		40	70		dB
222,0 MHz 300,0 MHz		40	60		dB
303,5 MHz 345,0 MHz		20	45	_	dB
395,0 MHz 396,0 MHz		28	30	_	dB
396,0 MHz 400,0 MHz		30	32	_	dB
407,5 MHz 475,0 MHz		30	40	_	dB
475,0 MHz 1025,0 MHz		40	45	_	dB
1025,0 MHz 2000,0 MHz		20	30	_	dB
2000,0 MHz 4000,0 MHz		15	17	_	dB
Temperature coefficient of frequency	TC _f	_	- 36	_	ppm/K



SAW Components B3684

Low-Loss Filter 387,5 MHz

Data Sheet

Characteristics

Operating temperature: $T = -25 ... + 75 ^{\circ}C$

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

		min.	typ.	max.	
Nominal frequency	f _N	_	387,5	_	MHz
Maximum insertion attenuation	$\alpha_{\sf max}$				
385,0 MHz 390,0 MHz	max	_	3,5	4,0	dB
Amplitude ripple (p-p)	Δα				
385,0 MHz 390,0 MHz		_	1,1	2,0	dB
Return loss (Input and Output)					
385,0 MHz 390,0 MHz		11,0	12,5	_	dB
Group delay	τ				
385,0 MHz 390,0 MHz		_	140	180	ns
Deviation from lin. phase (in 1 MHz bandwi	dth) Δφ				
385,0 MHz 390,0 MHz		_	1,3	5	۰
Temperature coefficient of frequency	TC _f	_	- 36	_	ppm/K

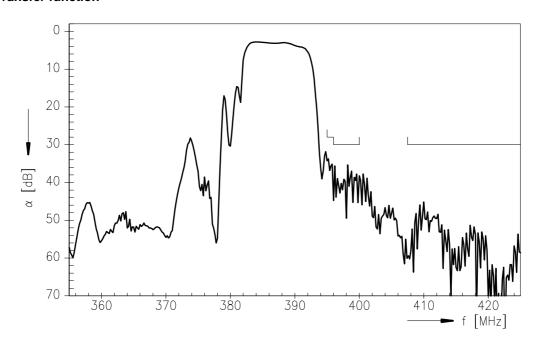


SAW Components B3684

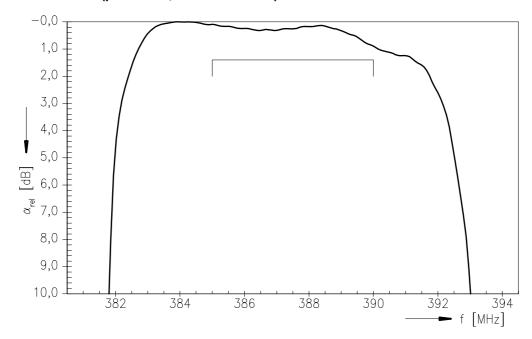
Low-Loss Filter 387,5 MHz

Data Sheet

Transfer function



Transfer function (pass band; +15 °C ... +35 °C)





SAW Components B3684

Low-Loss Filter 387,5 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.