

SAW Filters for Infrastructure Systems

Series/Type: B3684

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product		Deadline Last Orders	Last Shipments
B39391B3684U310		2008-02-07	2008-07-31	2008-10-31

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.



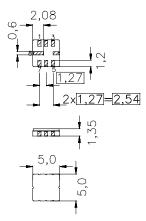
Data Sheet

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

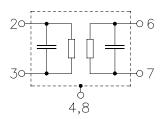


Ceramic package QCC8C

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.	
opolabio tompolatalo lango	•	20/1/0	O	
Storage temperature range	T	- 40/+ 85	°C	
Storage temperature range	' stg	- 4 0/+ 65	O	
DC voltage	1/	Λ	\/	
DC vollage	$v_{\rm DC}$	0	V	
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Source power	$r_{\rm s}$	10	dBm	source impedance 50 Ω



Data Sheet

Characteristics

Operating temperature: T = +15 ... +35 °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 bandwidt	h) Δφ				
385,0 MHz 390,0 MHz		_	0,9	5	0
Absolute attenuation	α_{abs}				
45,0 MHz 81,5 MHz	4,50	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



Data Sheet

Characteristics

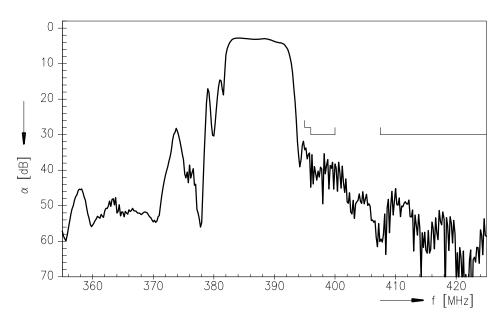
 $\begin{array}{lll} \mbox{Operating temperature:} & \mbox{T} = -25 \dots +75 \ ^{\circ}\mbox{C} \\ \mbox{Terminating source impedance:} & \mbox{$Z_{\rm S}$} = 50 \ \ \Omega \\ \mbox{Terminating load impedance:} & \mbox{$Z_{\rm L}$} = 50 \ \ \Omega \end{array}$

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Deviation from lin. phase (in 1 MHz bandwid 385,0 MHz 390,0 MHz	lth) Δφ	_	1,3	5	o
Temperature coefficient of frequency	TC _f	_	- 36	_	ppm/K

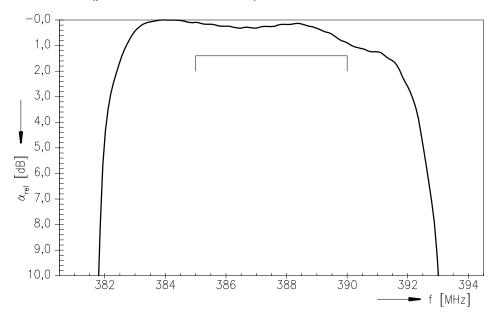


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Transfer function



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





Data Sheet

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