

SAW Filters for Infrastructure Systems

Series/Type: B3684

The following products presented in this data sheet are being withdrawn.

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

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SAW Components

• Usable bandwidth 5 MHz

• Low-loss filter (WBN) for Trunked Radio

No matching required for operation at 50 Ω

• Package for Surface Mounted Technology

• Hermetically sealed ceramic package

B3684 387,5 MHz

Low-Loss Filter Data Sheet

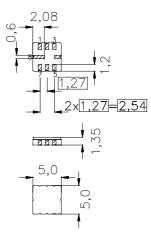
Features

(SMT)

Terminals

Gold-plated

Ceramic package QCC8C

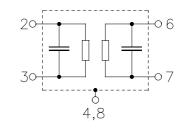


Dimensions in mm, approx. weight 0,1 g

Pin configuration

0	
2	Input
3	Input ground
6	Output
7	Output ground
1, 5	Ground

1, 5Ground4, 8Case 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	Т	- 25/+ 75	°C	
Storage temperature range	T _{stg}	- 40/+ 85	°C	
DC voltage	V _{DC}	0	V	
Source power	Ps	10	dBm	source impedance 50 Ω

Oct 17, 2000



SAW Components	B3684
Low-Loss Filter	387,5 MHz
Data Sheet	

Characteristics

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Operating temperature:	T = +15 +35 °C
Terminating source impedance:	$Z_{\rm S} = 50 \ \Omega$
Terminating load impedance:	$Z_{\rm L} = 50 \ \Omega$

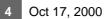
		min.	typ.	max.	
Nominal frequency	f _N		387,5	_	MHz
Maximum insertion attenuation	α_{max}				
385,0 MHz 390,0 MHz		_	3,2	3,5	dB
Amplitude ripple (p-p)	Δα				
385,0 MHz 390,0 MHz		_	0,9	1,4	dB
Return loss (Input and Output)					
385,0 MHz 390,0 MHz		11,0	12,5	-	dB
Group delay	τ				
385,0 MHz 390,0 MHz		—	140	180	ns
Deviation from lin. phase (in 1 MHz bandwid	th) Δφ				
385,0 MHz 390,0 MHz			0,9	5	•
Absolute attenuation	α_{abs}				
45,0 MHz 81,5 MHz	0.00	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
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Characteristics		
Operating temperature:	T = -25 +75 °C	

Operating temperature:	$I = -25 \dots + 75 C$
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		—	3,5	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	•
Temperature coefficient of frequency	TC _f		- 36		ppm/K



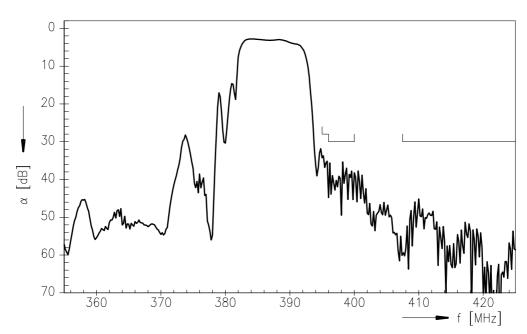
B3684



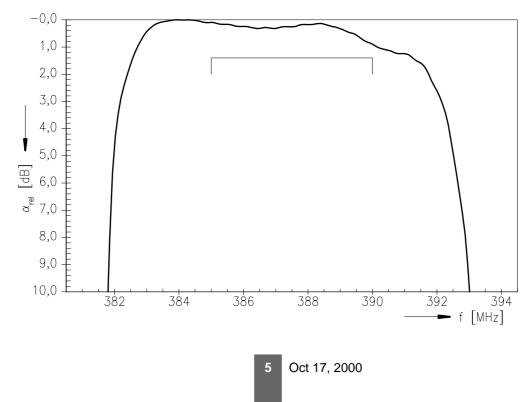
В	3684
387,5	MHz

Data Sheet

Transfer function



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





SAW Components	B3684
Low-Loss Filter	387,5 MHz

Data Sheet

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