

SAW filters for infrastructure systems

Series/Type: B3807

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39331B3807U310		2012-01-13	2012-12-31	2013-03-30

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SAW Components	B3807
Low-Loss Filter	326,4 MHz

Features

- Low-loss IF filter for W-CDMA base station
- Usable bandwidth 15 MHz
- Ceramic SMD package

Terminals

Gold plated



Ceramic package QCC8C

Dimensions in mm, approx. weight 0,10 g

Pin configuration

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



Туре	Ordering code	Marking and Package	Packing	
		according to	according to	
B3807	B39331-B3807-U310	C61157-A7-A56	F61074-V8070-Z000	

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	-40/ +85	°C
Storage temperature range	$T_{\rm sta}$	-40/ +85	°C
DC voltage	$V_{\rm DC}$	0	V
Source power	$P_{\rm s}^{-1}$	15	dBm





SAW Components						33807
Low-Loss Filter					326,4	4 MHz
Data Sheet Characteristics						
Operating topporature:	τ-	10 19	۶0 °C			
	7 = -	-10+0	50 C			
Terminating source impedance:	Z _S =	$50 \ \Omega$ an	id matching	g network		
Terminating load impedance:	Z _S =	50 Ω an	d matching network			
			min.	typ.	max.	
Nominal frequency		f _N	—	326,4	_	MHz
Minimum insertion attenuation		$lpha_{min}$	—	2,0	4,0	dB
Amplitude ripple (p-p)		Δα				
f _N -2,5 I	MHzf _N +2,5 MHz		—	0,3	0,5	dB
f _N -7,5 I	MHzf _N +7,5 MHz		—	1,0	3,0	dB
Pass bandwidth		B _{1,0dB}				
	$\alpha_{rel} \le 1,0 \text{ dB}$		—	15	—	MHz
	$\alpha_{rol} \leq 10 \text{ dB}$	B _{10dB}	_	20	_	MHz
	ollel					
Relative attenuation (relative to α_{min})		α_{rel}				
10,0 MHz	f _N – 18,0 MHz		40	50	—	dB
f _N -38,395 MHz	f _N -38,405 MHz		43	50	—	dB
f _N –19,195 MHz …	f _N -19,205 MHz		43	50	—	dB
f _N - 18,0 MHz	f _N – 12,5 MHz		13	15	—	dB
f _N + 12,5 MHz	f _N + 30,0 MHz		11	13	—	dB

Temperature coefficient of frequency	TC _f —	- 70	_	ppm/K
Output: Z _{OUT} = R _{OUT} C _{OUT}	—	73 0,2		Ω pF
input: $Z_{IN} = R_{IN} C_{IN}$	_	12 0,4	-	Ω∥p⊢
		70 11 0 4		
Impedance at f. (without matching)1				
f _N -7,5 MHzf _N +7,5 MHz	5	8		dB
r _N -7,0 MHZr _N +7,0 MHZ	8	10		uв
1_{N} = 2,5 1011 = 21 N = 2,5 1011 = 42 0 MU =	0	10		
f2.5 MHz f. +2.5 MHz	10	11	_	dB
Return Loss				
t _N +2,5 MHzt _N +7,5 MHz	_	50	65	ns
IN-2,5 MHZIN+2,5 MHZ	_	10	25	115
$f_{N} = 25 \text{ MHz} + f_{1} + 25 \text{ MHz}$		15	25	0
f 75 MHz f 25 MHz	_	90	110	ns
Group delay ripple (p-p)	Δτ			
f _N + 30,0 MHz f _N + 450,0 MHz	25	30	_	dB
t _N + 12,5 MHz t _N + 30,0 MHz	11	13	_	dB
$1_{\rm N}$ 10,0 1012 $1_{\rm N}$ 12,0 1012	13	15	_	

¹(port extensions directly at filter)



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Matching network to 50 Ω

(Element values depend upon PCB layout)



L _{s1} = 22 nH	C _{p3} = 2,7 pF
C _{p2} = 2,7 pF	L _{s4} = 22 nH

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SAW components	B3607
Low-Loss Filter	326,4 MHz

Normalized frequency response



Normalized frequency response (pass band)





SAW Components	B3807
Low-Loss Filter	326,4 MHz

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