

SAW Components

Preliminary Data LN32A





SAW Components

Low-Loss Filter

Preliminary Data

Features

- Low-loss IF filter for CDMA2000 base station, receive path
- 3,75 MHz usable bandwidth
- Balanced or unbalanced operation possible
- Temperature stable
- Hermetically sealed ceramic SMD package

Terminals

Gold plated



Dimensions in mm, approx. weight 0,2 g

Pin configuration

12	Input
10	Input ground
6	Output
4	Output Ground
1, 5, 7, 11	Case Ground
2, 3, 8, 9	To be grounded



Туре	Ordering code	Marking and Package	Packing
		according to	according to
LN32A			

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	-30 / +85	°C
Storage temperature range	T _{sta}	-30 / +85	°C
DC voltage	V _{DC}	0	V
Source power	Ps	10	dBm

Ceramic package QCC12E

LN32A 288,25 MHz

2



					.NJZA
				288,2	5 MHz
: T=	-10 8	80 °C			
ce: Z _S =	50 Ω un	balanced a	and matchir	ng network	
Z_{L} =	50Ω un	balanced a	nd matchin	gnetwork	
		min	tvp.	max.	1
	f _N		288.25		MHz
	- IN				
tion	α_{min}	_	9,3	13,0	dB
(including matching network)					
	_				
IB	$B_{1,0dB}$	3,8	4,0		MHz
	10				
25 MHz + 0 625 MH:	<u>Д</u> и 7		0.4	0.8	dB
ני און ב <u>5,02</u> 0 און ב גע ± 1.875 MHz	-	_	0.5	1.0	dB
N = 1,010 mil			-,-	.,-	
	$\Delta \tau$				
<i>f</i> _N ± 1,875 MHz		_	80	150	ns
<i>t</i> _N ± 1,875 MHz	τ		1,0	2,0	μs
	ለወ				
<i>f</i> ₀ ± 1.875 MH	ΔΨ Z	_	0.7	1.5	•
iv /			,	, -	
itude ¹⁾	EVM				
25 MHz \pm 0,625 MHz	Z	—	1,5	4,0	%
- 1-)					
e το α _{min}) f + 22 MLI-	α_{rel}	10	16		dB
/ _N ± 3,3 M⊓z f ±0.825 MHz		20	28		
$f_{\rm N} = 3,020$ MH ²	7	20	43		dB
$f_{\rm N} \pm 50$, 0 MHz	-	40	50		dB
IN 3.5					
s f _N ±1,875 MHz		10	13		dB
frequency ²⁾	TC _f		- 0,036		ppm/K
Turnover temperature		_	35	_	°C
	E: $T=$ C: $Z_S=$ $Z_L=$ Tion Tion Tion Tion Tion The set of the set	$\begin{array}{ccccccc} & T = & -10 \dots z_{S} \\ ce: & Z_{S} = 50 \ \Omega \ un \\ Z_{L} = 50 \ \Omega \ un \\ \hline & & Z_{L} = 50 \ \Omega \ un \\ \hline & & & Z_{L} = 50 \ \Omega \ un \\ \hline & & & & & & \\ \hline & & & & & & \\ \hline & & & &$			288,23 288,25 Ce: $Z_S = 50 \Omega$ unbalanced and matching network $Z_L = 50 \Omega$ unbalanced and matching network min. typ. max. f_N - 288,25 - tion α_{min} - 9,3 13,0 dB $B_{1,0dB}$ 3,8 4,0 - 25 MHz ± 0,625 MHz - 0,4 0,8 $f_N \pm 1,875$ MHz - 0,4 0,8 1,0 $f_N \pm 1,875$ MHz - 0,5 1,0 $f_N \pm 1,875$ MHz - 0,7 1,5 $f_N \pm 1,875$ MHz - 1,5 4,0 28 $f_N \pm 3,3$ MHz 13 16 - $f_N \pm 3,3$ MHz 20 28 - - $f_N \pm 39,3$ MHz 28 43 - - $f_N \pm 50$ MHz 10

2) Temperature dependance of fc: $fc(T_A) = fc(T_0)(1 + TC_f(T_A - T_0)^2)$

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Low-Loss Filter Preliminary Data 288,25 MHz

Normalized frequency response



Normalized frequency response (pass band)





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Matching network to 50 Ω

(Element values depend upon PCB layout)



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