

SAW Components

Preliminary Data Sheet LF74D





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Low-Loss Filter 140,0 MHz

Preliminary Data Sheet

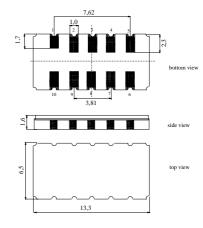
Ceramic package DCC12A

Features

- IF low-loss filter
- 14,0 MHz usable bandwidth
- Ceramic SMD package

Terminals

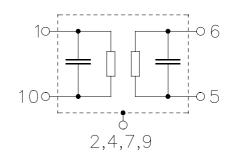
Gold plated



Dimensions in mm, approx. weight 0,4 g

Pin configuration

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



Туре	Ordering code	Marking and Package according to	Packing according to
LF74D		C61157-A7-A94	F61074-V8131-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

-			
Operable temperature range	Τ	-40 / + 85	°C
Storage temperature range	$T_{\rm stg}$	-55 / +125	°C
DC voltage	$V_{\rm DC}$	0	V
Source power	P_{s}	10	dBm



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Characteristics

Operating temperature: $T = -40^{\circ}C ... 85^{\circ}C$

Terminating source impedance: $Z_{\rm S} = 50~\Omega$ bal. and external matching network Terminating load impedance: $Z_{\rm L} = 50~\Omega$ bal. and external matching network

			min.	typ.	max.	
Nominal frequency		f_{N}	_	140,0		MHz
Average insertion attenuation (including matching network)	f _N ± 7,0 MHz	α_{avg}	_	11,0	13,0	dB
Pass bandwidth $$\alpha_{\text{re}}$$	_I ≤3,0 dB	B _{3,0dB}	_	18,9	_	MHz
Amplitude ripple TTE 1)	$f_{ m N} \pm 5,5~{ m MHz}$ $f_{ m N} \pm 7,0~{ m MHz}$	Δα	_ _	0,3 0,4	0,4 0,6	dB dB
Absolute group delay (@ $f_{\mathbb{C}}$)		τ	_	1,0	_	μs
Phase ripple (p-p) TTE 1)	$f_{ m N} \pm 5,5 \ m MHz$ $f_{ m N} \pm 7,0 \ m MHz$	Δφ	<u> </u>	2,6 4,5	4,0 6,0	0
Relative attenuation (relative to $\alpha_{\rm min}$) $f_{\rm N} \pm 14,0~{\rm MHz}~~f_{\rm N} \pm 100,0~{\rm MHz}$		α_{rel}	40	50	_	dB
Tripple transit suppression		TTS	40	45	_	dB
Return loss	<i>f</i> _N ± 7,0 MHz		_	15	_	dB
Pyroelectric pulse amplitude (p-p)		V_{p}	<u> </u>	0,0	50,0	mV
Temperature coefficient of frequency		TC _f		- 87	_	ppm/K

 $^{^{1)}}$ TTE = Triple transit signal excluded (Gate from 0 μs to 2.6 $\mu s)$



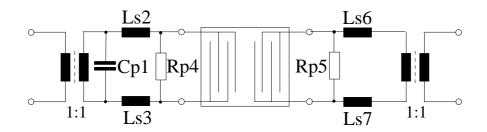
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Matching network to 50 $\boldsymbol{\Omega}$ balanced

(Element values depend upon PCB layout)



$$C_{p1} = 12 pF$$

$$L_{s2} = 47 \text{ nH}$$

$$L_{s3} = 56 \text{ nH}$$

$$R_{p4} = 820 \Omega$$

$$R_{p5} = 820 \Omega$$

$$L_{s6} = 39 \text{ nH}$$

$$L_{s7} = 47 \text{ nH}$$

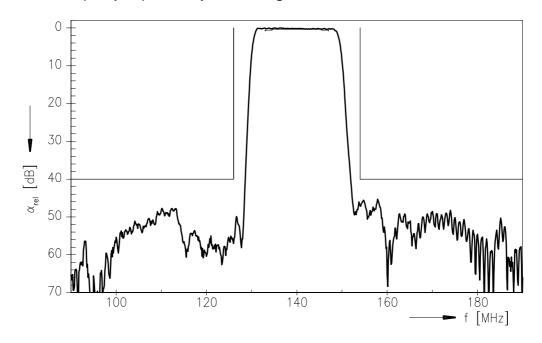


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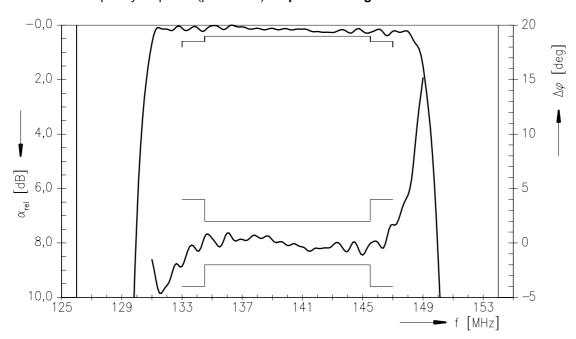
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Normalized frequency response: Triple transit signal included



Normalized frequency response (pass band): Triple transit signal excluded





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