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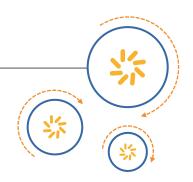






RF360 Europe GmbH

A Qualcomm - TDK Joint Venture



SAW Components

Low-Loss Filter for Mobile Communication

Data Sheet B4926

Series/type: B4926

Ordering code:

Date: Apr 02, 2003

Version:

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SAW Components

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SAW Components B4926 Low-Loss Filter for Mobile Communication 133,2 MHz

Data Sheet



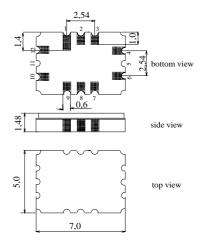
Ceramic package QCC12C

Features

- Low-loss IF filter for mobile telephone
- Channel selection in GSM systems
- Hermetically sealed ceramic SMD package
- Balanced and unbalanced operation possible
- No coupling coil required

Terminals

Gold-plated Ni



Dimensions in mm, approx. weight 0,25 g

Pin configuration

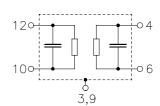
10	Ing	out

12 Input ground or balanced input

4 Output

6 Output ground or balanced output

3, 9 Case ground 1, 2, 7, 8 To be grounded



Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
B4926	B39131-B4926-H310	C61157-A7-A95	F61074-V8710-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Τ	- 30/+ 85	,C	
Storage temperature range	$T_{\rm stg}$	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	5	V	
Source power	$P_{\rm s}$	10	dBm	
ESD	V_{ESD}	50	V	Human Body Model



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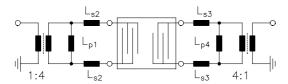
Characteristics

Operating temperature range: $T = -30 \,^{\circ} \text{C} \dots + 80 \,^{\circ} \text{C}$ Terminating source impedance: $Z_{\text{S}} = 1000 \,\Omega \parallel 135 \,\text{nH}$ Terminating load impedance: $Z_{\text{L}} = 1300 \,\Omega \parallel 170 \,\text{nH}$

		min.	typ.	max.	
Nominal frequency	f _N	_	133,20		MHz
Minimum insertion attenuation	$lpha_{min}$				
(excluding losses in matching circuit)			4,5	6,0	dB
Amplitude ripple (p-p)	Δα				
$f_{\rm N}$ - 100,0 kHz $f_{\rm N}$ + 100,0 kHz		_	0,4	1,0	dB
Group delay ripple (p-p)	$\Delta \tau$				
$f_{\rm N}$ - 100,0 kHz $f_{\rm N}$ + 100,0 kHz		_	0,3	1,0	μs
Relative attenuation (relative to α_{min})	α_{rel}				
f_{N} - 30,00 MHz f_{N} - 7,00 MHz		40	48	_	dB
f_{N} - 7,00 MHz f_{N} - 3,00 MHz		35	42	_	dB
f_{N} - 3,00 MHz f_{N} - 0,80 MHz		29	32	_	dB
f_{N} - 0,80 MHz f_{N} - 0,60 MHz		20	29	_	dB
f_{N} - 0,60 MHz f_{N} - 0,40 MHz		15	19	_	dB
f_{N} - 0,40 MHz f_{N} - 0,25 MHz		3	6,5	_	dB
$f_{\rm N}$ + 0,25 MHz $f_{\rm N}$ + 0,40 MHz		3	6,5	_	dB
$f_{\rm N}$ + 0,40 MHz $f_{\rm N}$ + 0,60 MHz		15	17	_	dB
$f_{\rm N}$ + 0,60 MHz $f_{\rm N}$ + 0,80 MHz		20	27	_	dB
$f_{\rm N}$ + 0,80 MHz $f_{\rm N}$ + 3,00 MHz		29	31	_	dB
$f_{\rm N}$ + 3,00 MHz $f_{\rm N}$ + 7,00 MHz		35	39	_	dB
$f_{\rm N}$ + 7,00 MHz $f_{\rm N}$ + 30,00 MHz		40	46		dB
Impedance within pass band					
Input: $Z_{IN} = R_{IN} C_{IN}$		_	1000 10,3.	_	$\Omega \parallel pF$
Output: $Z_{OUT} = R_{OUT} C_{OUT}$		_	1300 8,2	_	$\Omega \parallel pF$
Temperature coefficient of frequency 1)	TC_{f}	_	- 0,042		ppm/K ²
Frequency inversion point	T_0	_	25	_	°C

¹⁾ Temperature dependence of f_c : $f_c(T) = f_c(T_0)(1 + TC_f(T - T_0)^2)$

Test matching network to 50 Ω (element values depend on PCB layout):

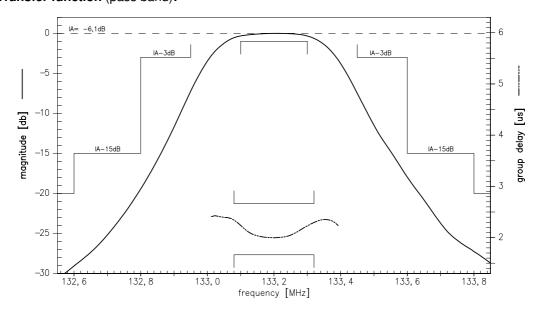


 $L_{p1} = 82 \text{ nH}$ $L_{s2} = 27 \text{ nH}$ $L_{s3} = 43 \text{ nH}$

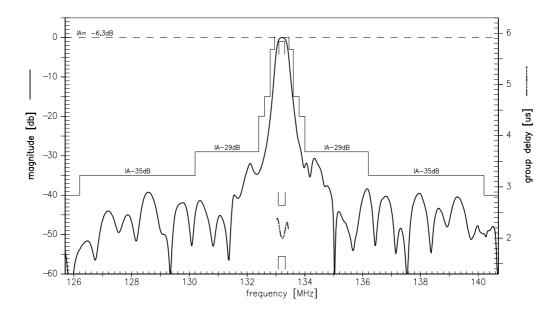




Transfer function (pass band):



Transfer function (wide band):





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