

SAW Components

Data Sheet B4935





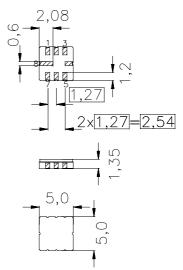
SAW Components	B4935	
Low Loss Filter for Mo	bile Communication	220,38 MHz
Data Sheet	SMD	

Features

- IF filter for mobile telephone
- Channel selection in CDMA systems, Korean PCS
- Low insertion attenuation
- Extremely high rejection
- Single-ended/single-ended, balanced/single-ended and balanced/balanced operation possible
- Optimized for single-ended/balanced operation
- Very small size
- Package for Surface Mounted Technology (SMT)

Terminals

Ni, gold plated



Dimensions in mm, approx. weight 0,07 g

Pin configuration

- 2 Input
- 1+3 Input ground or balanced input
- 6 Output
- 5 Output ground or balanced output
- 7 to be grounded
- 4, 8 Case ground

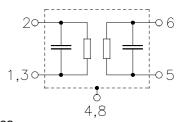
Device is reciprocal, i.e. inputs can be used as outputs and vice versa

Туре	Ordering code	Marking and Package according to	Packing according to
B4935	B39221-B4935-U310	C61157-A7-A53	F61074-V8070-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	- 30/+ 85	°C
Storage temperature range	$T_{\rm stg}$	- 40/+ 85	°C
DC voltage	V _{DC}	13	V
Source power	Ps	10	dBm



Ceramic package QCC8C



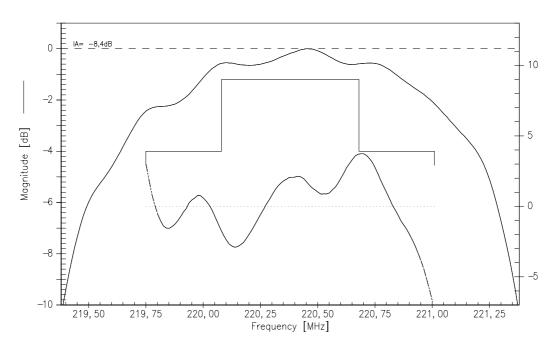
SAW Components							B4935
Low Loss Filter for Mobile Communication					220,38 MHz		
Data Sheet		SN					
Characteristics single-ende	ed/balanced						
Operating temperature:				°C to +80	-		
Terminating source impedar Terminating load impedance				50 Ω 63 nH) Ω 60 nH	4		
	5.	ΖL	= 010				
				min.	typ.	max.	
Nominal frequency			f _N		220,38	—	MHz
Insertion attenuation at f_N (including loss in matching r in baluns)	network without	t loss	$lpha_{fN}$	_	8,2	9,5	dB
Amplitude ripple (p-p)			Δα				
• •• •• •• •• •• •• •• •• •• •• •• •• •	$f_{\rm N} + 0,30$	MHz			05	1,2	dB
Phase linearity			$\Delta \phi$				
(rms deviation)	<i>f</i> _N +0,63	MHz			2,3	3,2	•
/ _N 0,00	/ _N + 0,00	101112			2,0	0,2	
Relative attenuation (relati			α_{rel}				
<i>f</i> _N – 0,63	$f_{\sf N}$ + 0,63	MHz			2,2	4,0	dB
<i>f</i> _N – 100,0	f _N – 50,0	MHz		60,0	73,0	_	dB
$f_{\rm N} - 50,0$	$f_{\rm N} - 30,0$	MHz		50,0	70,0	_	dB
<i>f</i> _N – 30,0	<i>f</i> _N – 10,0	MHz		40,0	62,0		dB
<i>f</i> _N – 10,0	<i>f</i> _N – 1,25	MHz		35,0	39,0		dB
	f _N – 1,25	MHz			45,0	—	dB
	<i>f</i> _N + 1,25	MHz			45,0		dB
	$f_{\rm N} + 10,0$	MHz		35,0	41,0		dB
	$f_{\rm N} + 30,0$	MHz		40,0	62,0		dB
	$f_{\rm N} + 50,0$	MHz		50,0	70,0	—	dB
$f_{\rm N} + 50,0$	<i>f</i> _N +100,0	MHz		60,0	73,0	—	dB
Temperature coefficient o	f frequency ¹⁾		TC _f		-0,036		ppm/K
Frequency inversion point			-				
	•		T_0	_	30		°C

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

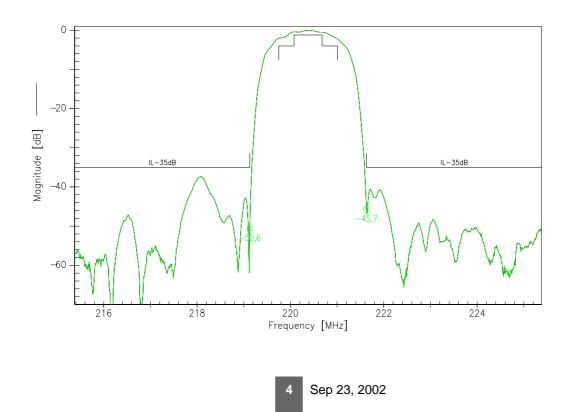
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Transfer function (passband, single-ended/balanced):



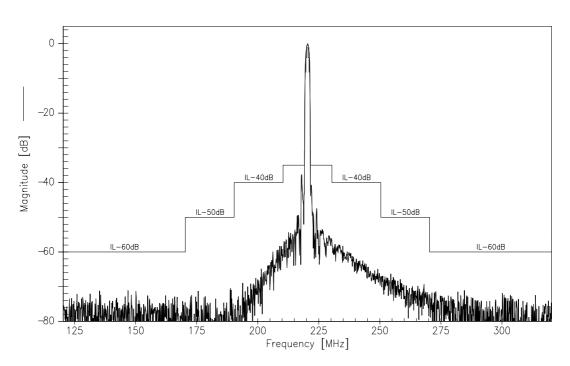
Transfer function (narrowband, single-ended/balanced):





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Transfer function (wideband, single-ended/balanced):





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This brochure replaces the previous edition.

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