

Data Sheet B9024





B9024

Low-Loss Filter for Mobile Communication

942,5 MHz

Data Sheet

Features

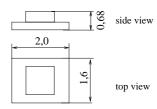
- Low-loss RF filter for mobile telephone EGSM system, receive path
- Usable passband 35 MHz
- Unbalanced operation
- \blacksquare Impedance 50 Ω input and output
- Ceramic Package for Surface Mounted Technology (SMT)

0,075 1 2 0 0,075 1 2 0 0,075 bottom view

Chip sized SAW package DCS4F

Terminals

■ Ni, gold-plated

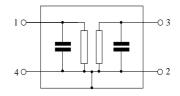


Dimensions in mm, approx. weight 6 mg

Pin configuration

1 Input, unbalanced 3 Output, unbalanced

2,4 Case ground



Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
B9024	B39941-B9024-E610	C61157-A7-A113	F61074-V8152-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 30 / + 85	°C	
Storage temperature range	T_{stg}	- 40 / + 85	°C	
DC voltage	$V_{\rm DC}$	3	V	
ESD voltage	V_{ESD}^{*}	100*	V	machine model, 10 pulses
Input power at	P_{IN}	15	dBm	peak power of GSM signal,
GSM850, GSM900				duty cycle 4:8
GSM1800 and GSM1900				
Tx bands				

^{*} acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses



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T = -25 ... +75 °C Operating temperature:

 $Z_{\rm S} = 50 \ \Omega$ $Z_{\rm L} = 50 \ \Omega$ Terminating source impedance: Terminating load impedance:

				min.	typ. (25 °C)	max.	
Center frequency			$f_{\mathbb{C}}$	_	942,5	_	MHz
Maximum insertion attenuation			α_{max}				
925	,0 960,0	MHz		_	1,9	2,5	dB
Amplitude ripple (p-p)			Δα				
925	,0 960,0	MHz		_	0,9	1,5	dB
Input VSWR							
925	,0 960,0	MHz		_	2,1	2,4	
Output VSWR							
925	,0 960,0	MHz		_	2,2	2,4	
Attenuation			α				
C	,0 890,0	MHz		33	38	_	dB
890	,0 905,0	MHz		25	31		dB
905	,0 915,0	MHz		19	26	_	dB
980	,01015,0	MHz		23	25	_	dB
1015	,01025,0	MHz		25	32	_	dB
1025	,02500,0	MHz		30	35	_	dB
2500	,06000,0	MHz		30	42	_	dB



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T = -30 ... +85 °C Operating temperature:

 $Z_{\rm S} = 50 \ \Omega$ $Z_{\rm L} = 50 \ \Omega$ Terminating source impedance: Terminating load impedance:

					min.	typ. (25 °C)	max.	
Center frequency				$f_{\mathbb{C}}$	_	942,5	_	MHz
Maximum insertion attenuation			α_{max}					
	925,0	960,0	MHz		_	1,9	2,8	dB
Amplitude ripple (p-p)	005.0	000.0		$\Delta \alpha$		0.0	4.0	I.D.
	925,0	960,0	MHz			0,9	1,8	dB
Input VSWR	025 O	960,0	MHz			2,1	2.4	
	925,0	900,0	IVIITZ			۷,۱	2,4	
Output VSWR	925.0	960,0	MHz		_	2,2	2,4	
	0_0,0	000,0				_,_	_, .	
Attenuation				α				
		890,0	MHz		33	38	_	dB
		905,0	MHz		25	31		dB
		915,0	MHz		19	26	_	dB
		1015,0	MHz		23	25	_	dB
1	015,0	1025,0	MHz		25	32	_	dB
1	025,0	2500,0	MHz		30	35	_	dB
2	500,0	6000,0	MHz		30	42	<u> </u>	dB



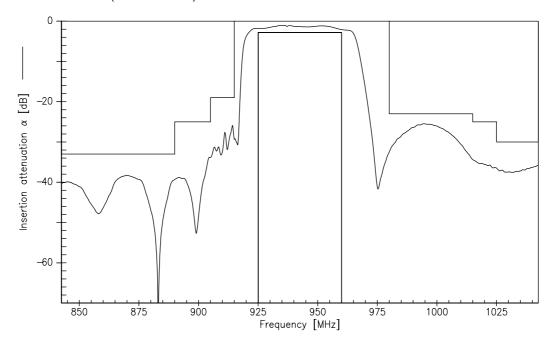
SAW Components B9024

Low-Loss Filter for Mobile Communication 942,5 MHz

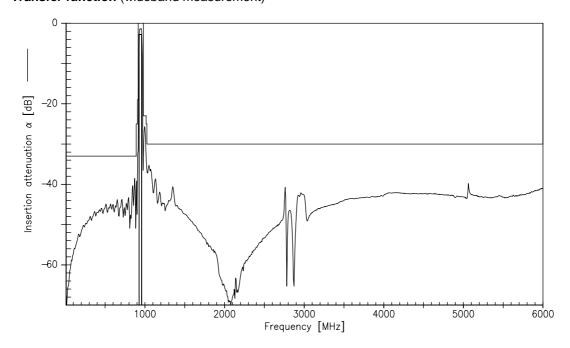
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Transfer function (measurement)



Transfer function (wideband measurement)





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