

Data Sheet B9024





B9024

Low-Loss Filter for Mobile Communication

942,5 MHz

Data Sheet



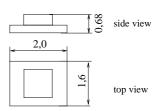
Features

- 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)

Chip sized SAW package DCS4F

Terminals

■ Ni, gold-plated

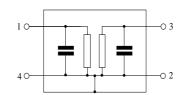


Dimensions in mm, approx. weight 6 mg

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	$T_{ m stg}$	- 40 / + 85	°C	
DC voltage	$V_{\rm DC}^{\rm org}$	3	V	
ESD voltage	$V_{\rm ESD}^{*}$	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



B9024

Low-Loss Filter for Mobile Communication

942,5 MHz

Data Sheet

Characteristics

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}				
929	5,0 960,0	MHz		_	1,9	2,5	dB
Amplitude ripple (p-p)			Δα				
925	5,0 960,0	MHz		_	0,9	1,5	dB
Input VSWR							
928	5,0 960,0	MHz		_	2,1	2,4	
Output VSWR							
925	5,0 960,0	MHz		_	2,2	2,4	
Attenuation			α				
(0,0 890,0	MHz		33	38	_	dB
890	0,0 905,0	MHz		25	31		dB
908	5,0 915,0	MHz		19	26	_	dB
980	0,01015,0	MHz		23	25	_	dB
1019	5,01025,0	MHz		25	32	_	dB
1025	5,02500,0	MHz		30	35	_	dB
2500	0,06000,0	MHz		30	42	_	dB



B9024

Low-Loss Filter for Mobile Communication

942,5 MHz

Data Sheet

Characteristics

Operating temperature: $T = -30 \dots +85 \,^{\circ}\text{C}$

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

				min.	typ. (25 °C)	max.	
Center frequency			$f_{\mathbb{C}}$	_	942,5	_	MHz
Maximum insertion attenuation o			α_{max}				
925,0	960,0	MHz		_	1,9	2,8	dB
Amplitude ripple (p-p)			Δα				
925,0	960,0	MHz		_	0,9	1,8	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				
0,0	890,0	MHz		33	38	_	dB
890,0	905,0	MHz		25	31		dB
905,0	915,0	MHz		19	26	_	dB
980,0	1015,0	MHz		23	25	_	dB
1015,0	1025,0	MHz		25	32	_	dB
1025,0	2500,0	MHz		30	35	_	dB
2500,0	6000,0	MHz		30	42	_	dB



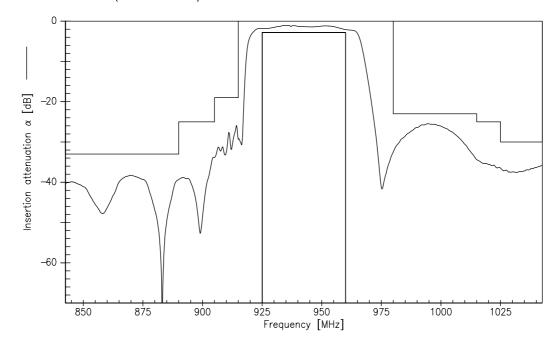
Low-Loss Filter for Mobile Communication

942,5 MHz

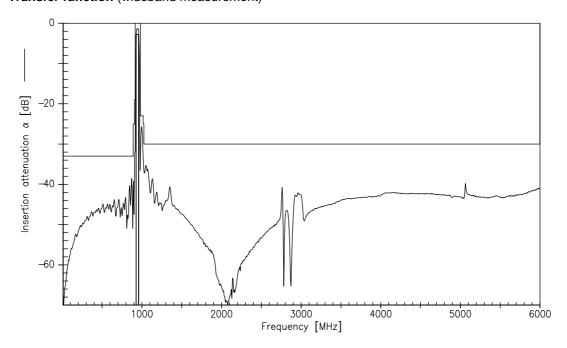
Data Sheet



Transfer function (measurement)



Transfer function (wideband measurement)





Low-Loss Filter for Mobile Communication

942,5 MHz

Data Sheet



Published by EPCOS AG Surface Acoustic Wave Components Division, SAW MC WT P.O. Box 80 17 09, D-81617 München

© EPCOS AG 2005. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.