



SAW Components

Data Sheet B7602

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a bright, circular highlight in the center of each, giving them a three-dimensional appearance. They are set against a dark, textured background that includes a faint, glowing globe and circuitry patterns, suggesting a high-tech or electronic theme.



SAW Components

B7602

Low-Loss Filter for Mobile Communication

942,5 MHz

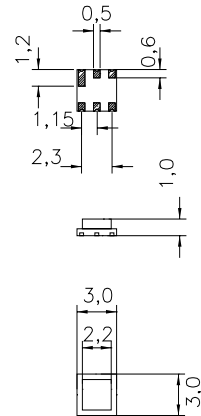
Data Sheet



Chip sized SAW package

Features

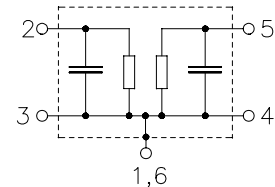
- Low-loss RF filter for mobile telephone EGSM system, receive path
- Low amplitude ripple
- Usable passband 35 MHz
- No matching network required for operation at 50 Ω
- Ceramic package for **Surface Mounted Technology (SMT)**



Dimensions in mm, approx. weight 0,027g

Pin configuration

2	Input
3	Input - ground
5	Output
4	Output - ground
1,6	Case ground



Type	Ordering code	Marking and Package according to	Packing according to
B7602	B39941-B7602-A610	C61157-A7-A62	F61074-V8086-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 10 / + 80	$^{\circ}\text{C}$	source and load impedance 50 Ω peak power of GSM signal, duty cycle 1 : 8 continuous wave
Storage temperature range	T_{stg}	- 40 / + 85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
ESD voltage	V_{ESD}	50	V	
Input power max.	P_{IN}	10	dBm	
880...915 MHz				
elsewhere		0	dBm	



SAW Components

B7602

Low-Loss Filter for Mobile Communication

942,5 MHz

Data Sheet



Characteristics

Operating temperature range: $T = 25 \pm 2^\circ \text{C}$
Terminating source impedance: $Z_S = 50 \Omega$
Terminating load impedance: $Z_L = 50 \Omega$

			min.	typ.	max.	
Center frequency	f_c		—	942,50	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$					
	925,0 ... 960,0 MHz		—	2,5	3,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
	925,0 ... 960,0 MHz		—	1,1	1,6	dB
Input VSWR						
	925,0 ... 960,0 MHz		—	2,1	2,3	
Output VSWR						
	925,0 ... 960,0 MHz		—	2,1	2,3	
Attenuation	α					
	0,0 ... 880,0 MHz		20	21	—	dB
	880,0 ... 905,0 MHz		20	26	—	dB
	905,0 ... 915,0 MHz		13	25	—	dB
	980,0 ... 1005,0 MHz		20	28	—	dB
	1005,0 ... 1725,0 MHz		20	23	—	dB
	1725,0 ... 1920,0 MHz		23	28	—	dB
	1920,0 ... 3000,0 MHz		19	26	—	dB
	3000,0 ... 4000,0 MHz		8	19	—	dB
	4000,0 ... 4800,0 MHz		5	18	—	dB



SAW Components

B7602

Low-Loss Filter for Mobile Communication

942,5 MHz

Data Sheet



Characteristics

Operating temperature range: $T = 10$ to $+60^{\circ}\text{C}$
Terminating source impedance: $Z_S = 50\ \Omega$
Terminating load impedance: $Z_L = 50\ \Omega$

			min.	typ.	max.	
Center frequency	f_c		—	942,50	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$					
	925,0 ... 960,0 MHz		—	2,7	3,1	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
	925,0 ... 960,0 MHz		—	1,3	1,7	dB
Input VSWR						
	925,0 ... 960,0 MHz		—	2,1	2,3	
Output VSWR						
	925,0 ... 960,0 MHz		—	2,1	2,3	
Attenuation	α					
	0,0 ... 880,0 MHz		20	21	—	dB
	880,0 ... 905,0 MHz		20	26	—	dB
	905,0 ... 915,0 MHz		11	21	—	dB
	980,0 ... 1005,0 MHz		20	28	—	dB
	1005,0 ... 1725,0 MHz		20	23	—	dB
	1725,0 ... 1920,0 MHz		23	28	—	dB
	1920,0 ... 3000,0 MHz		19	26	—	dB
	3000,0 ... 4000,0 MHz		8	19	—	dB
	4000,0 ... 4800,0 MHz		5	18	—	dB



SAW Components

B7602

Low-Loss Filter for Mobile Communication

942,5 MHz

Data Sheet



Characteristics

Operating temperature range: $T = -10$ to $+80^{\circ}\text{C}$

Terminating source impedance: $Z_S = 50\ \Omega$

Terminating load impedance: $Z_L = 50\ \Omega$

		min.	typ.	max.	
Center frequency	f_c	—	942,50	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$				
925,0 ... 960,0 MHz		—	2,8	3,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
925,0 ... 960,0 MHz		—	1,4	2,1	dB
Input VSWR					
925,0 ... 960,0 MHz		—	2,1	2,3	
Output VSWR					
925,0 ... 960,0 MHz		—	2,1	2,3	
Attenuation	α				
0,0 ... 880,0 MHz		20	21	—	dB
880,0 ... 905,0 MHz		20	26	—	dB
905,0 ... 915,0 MHz		7	19	—	dB
980,0 ... 1005,0 MHz		20	28	—	dB
1005,0 ... 1725,0 MHz		20	23	—	dB
1725,0 ... 1920,0 MHz		23	28	—	dB
1920,0 ... 3000,0 MHz		19	26	—	dB
3000,0 ... 4000,0 MHz		8	19	—	dB
4000,0 ... 4800,0 MHz		5	18	—	dB



SAW Components

B7602

Low-Loss Filter for Mobile Communication

942,5 MHz

Data Sheet



Characteristics

Operating temperature range: $T = -20$ to $+70^{\circ}\text{C}$

Terminating source impedance: $Z_S = 50\ \Omega$

Terminating load impedance: $Z_L = 50\ \Omega$

		min.	typ.	max.	
Center frequency	f_c	—	942,50	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$				
925,0 ... 960,0 MHz		—	2,8	3,6	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
925,0 ... 960,0 MHz		—	1,4	2,2	dB
Input VSWR					
925,0 ... 960,0 MHz		—	2,1	2,3	
Output VSWR					
925,0 ... 960,0 MHz		—	2,1	2,3	
Attenuation	α				
0,0 ... 880,0 MHz		20	21	—	dB
880,0 ... 905,0 MHz		20	26	—	dB
905,0 ... 915,0 MHz		7	20	—	dB
980,0 ... 1005,0 MHz		20	28	—	dB
1005,0 ... 1725,0 MHz		20	23	—	dB
1725,0 ... 1920,0 MHz		23	28	—	dB
1920,0 ... 3000,0 MHz		19	26	—	dB
3000,0 ... 4000,0 MHz		8	19	—	dB
4000,0 ... 4800,0 MHz		5	18	—	dB



SAW Components

B7602

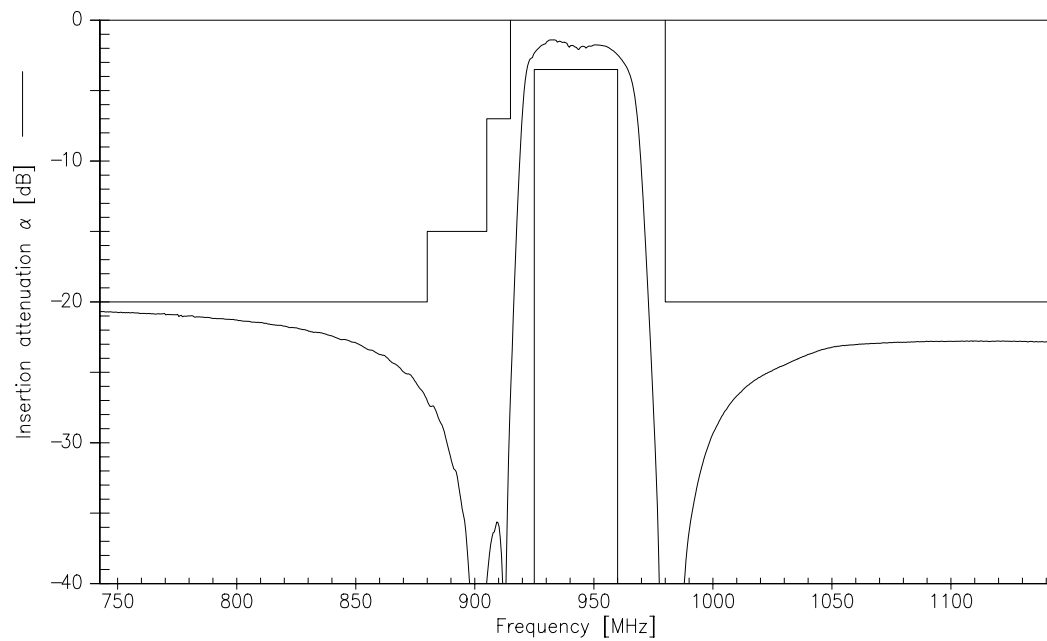
Low-Loss Filter for Mobile Communication

942,5 MHz

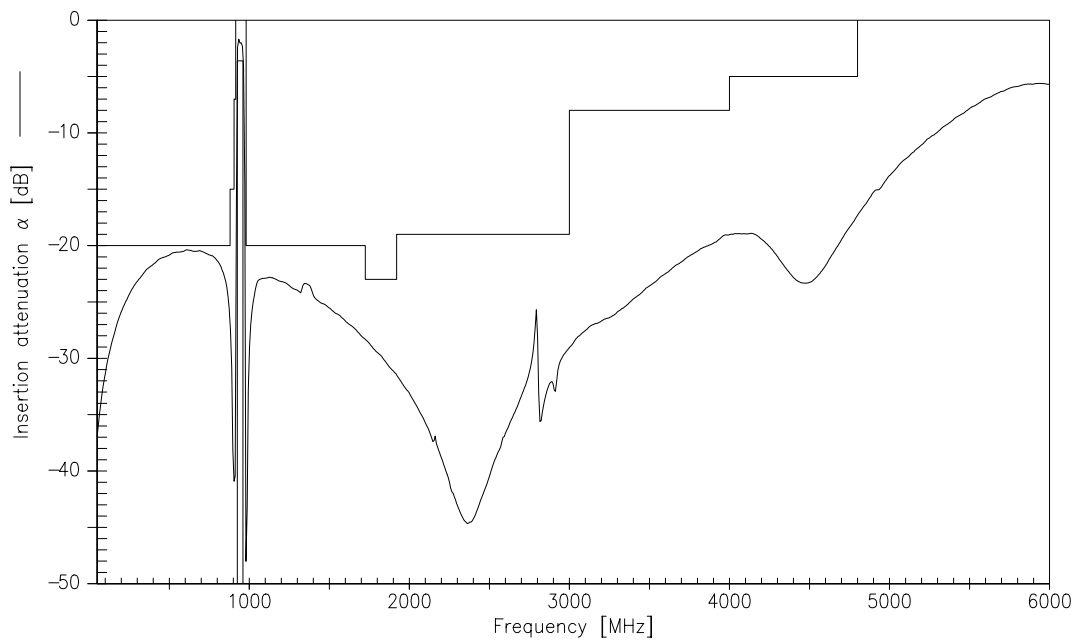
Data Sheet



Transfer function



Transfer function (wideband)





SAW Components	B7602
Low-Loss Filter for Mobile Communication	942,5 MHz
Data Sheet	SMD

Published by EPCOS AG
Surface Acoustic Wave Components Division, OFW E MF
P.O. Box 80 17 09, D-81617 München

© EPCOS AG 1999. All Rights Reserved.

As far as patents or other rights of third parties are concerned, liability is only assumed for components per se, not for applications, processes and circuits implemented within components or assemblies.

The information describes the type of component and shall not be considered as assured characteristics.

Terms of delivery and rights to change design reserved.

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.