



SAW filters for infrastructure systems

Series/Type: B4040

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39931B4040Z810		2013-03-08	2013-12-31	2014-03-31

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.



Siemens Matsushita Components

SAW Components Low-Loss Duplexer for Mobile Communication

B4040
926,25 MHz
903,75 MHz

Data Sheet

Characteristics channel 1 (Port 1 - Ant)

Operable temperature range $T_A = 0 \text{ to } 55 \text{ }^\circ\text{C}$

Ant term. impedance $Z_{Ant} = 50 \text{ } \Omega$

Port 1 term. impedance $Z_{Port 1} = 50 \text{ } \Omega$

Port 2 term. impedance $Z_{Port 2} = 50 \text{ } \Omega$

		min.	typ.	max.	
Center frequency	f_c	—	926,25	—	MHz
Maximum insertion attenuation	α_{max}	—	3,5	4,5	dB
924,90 ... 928,15 MHz					
Amplitude ripple (p-p)	$\Delta\alpha$	—	0,5	2,0	dB
924,90 ... 928,15 MHz					
Absolute attenuation	α				
450,00 ... 850,00 MHz		48	53	—	dB
850,00 ... 884,80 MHz		41	45	—	dB
884,80 ... 910,00 MHz		34	36	—	dB
910,00 ... 916,90 MHz		8	20	—	dB
935,00 ... 946,30 MHz		5	20	—	dB
946,30 ... 949,00 MHz		48	53	—	dB
967,70 ... 980,00 MHz		48	55	—	dB
980,00 ... 1350,00 MHz		40	44	—	dB
1350,00 ... 1800,00 MHz		21	26	—	dB



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Characteristics channel 2 (Port 2 - Ant)

Operable temperature range $T_A = 0 \text{ to } 55 \text{ }^\circ\text{C}$

Ant term. impedance $Z_{Ant} = 50 \text{ } \Omega$

Port 1 term. impedance $Z_{Port 1} = 50 \text{ } \Omega$

Port 2 term. impedance $Z_{Port 2} = 50 \text{ } \Omega$

		min.	typ.	max.	
Center frequency	f_c	—	903,75	—	MHz
Maximum insertion attenuation	α_{max}	—	2,8	4,0	dB
901,45 ... 905,10 MHz					
Amplitude ripple (p-p)	$\Delta\alpha$	—	0,4	2,0	dB
901,45 ... 905,10 MHz					
Absolute attenuation	α				
450,00 ... 859,60 MHz		49	54	—	dB
859,60 ... 862,30 MHz		47	51	—	dB
862,30 ... 883,70 MHz		28	36	—	dB
883,70 ... 894,40 MHz		5	9	—	dB
913,15 ... 923,80 MHz		5	11	—	dB
923,80 ... 927,60 MHz		38	49	—	dB
945,20 ... 970,00 MHz		22	33	—	dB
970,00 ... 1050,00 MHz		48	54	—	dB
1050,00 ... 1350,00 MHz		40	49	—	dB
1350,00 ... 1800,00 MHz		25	39	—	dB



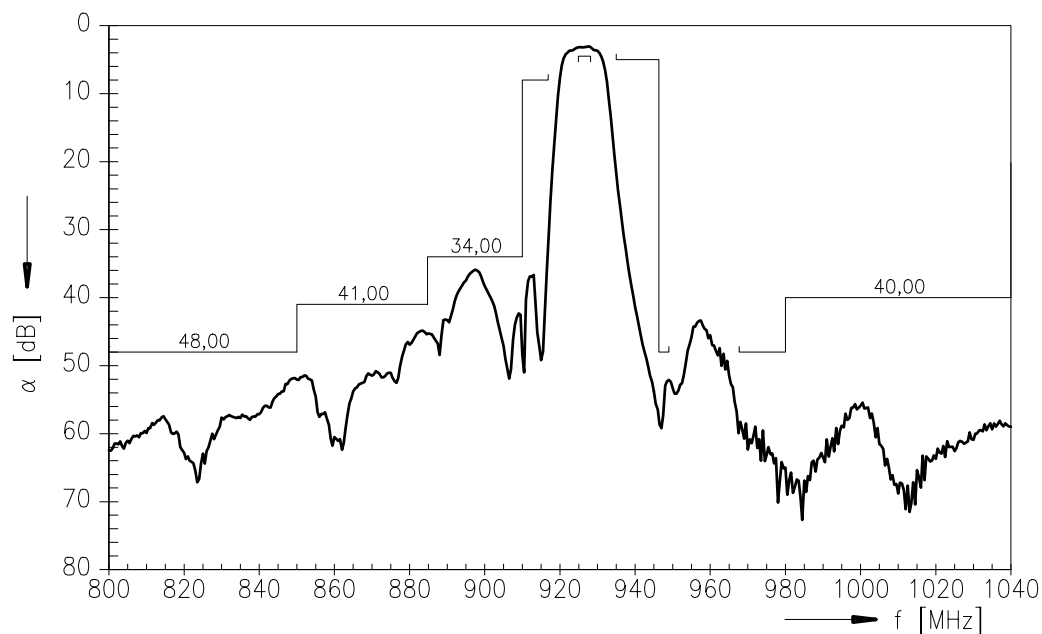
Siemens Matsushita Components

SAW Components Low-Loss Duplexer for Mobile Communication

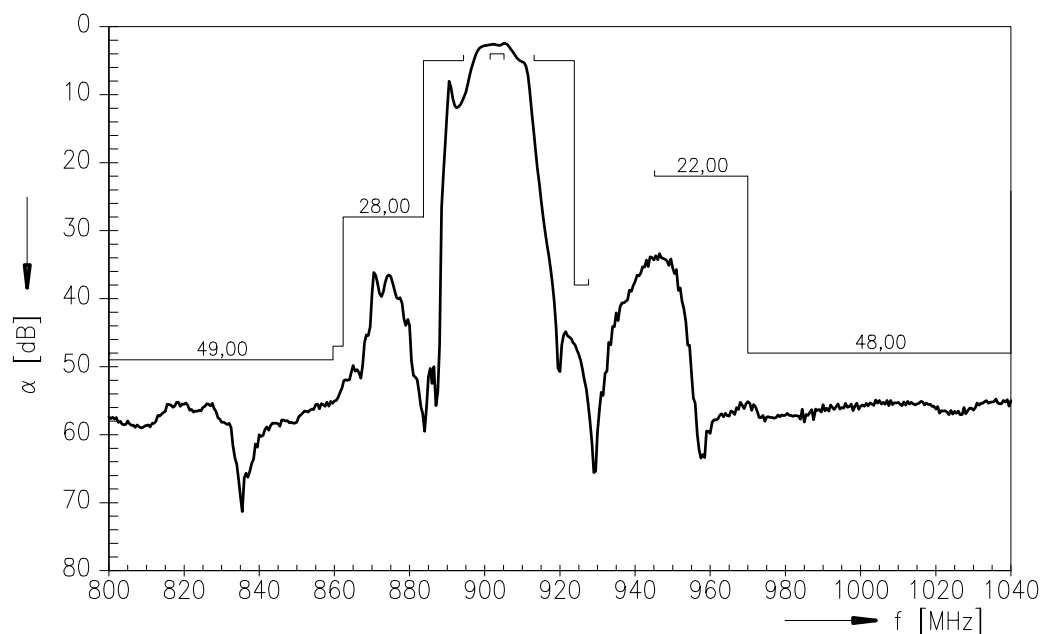
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926,25 MHz
903,75 MHz

Data Sheet

Frequency response channel 1 :



Frequency response channel 2 :





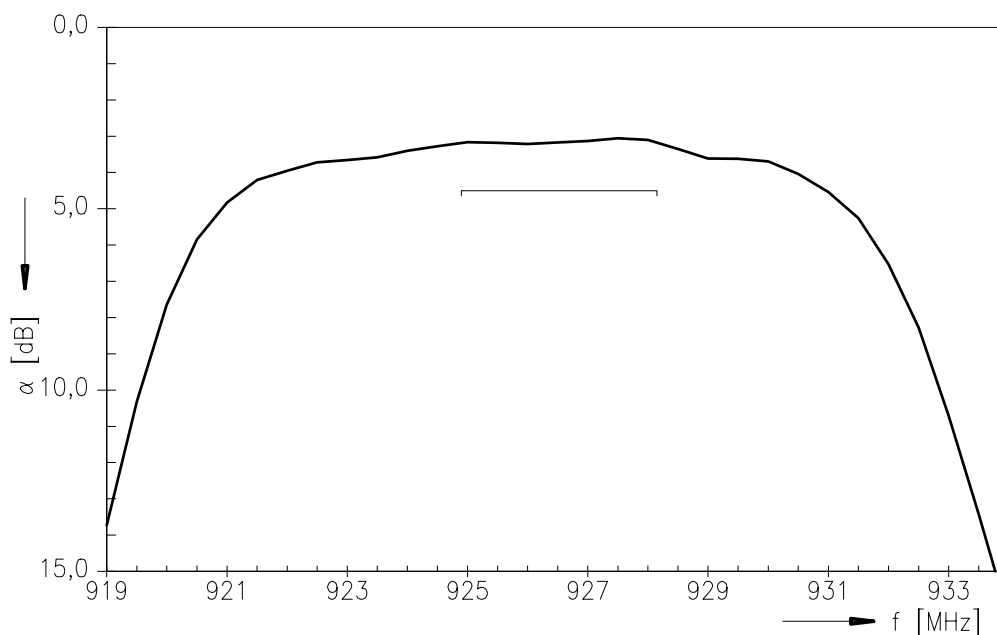
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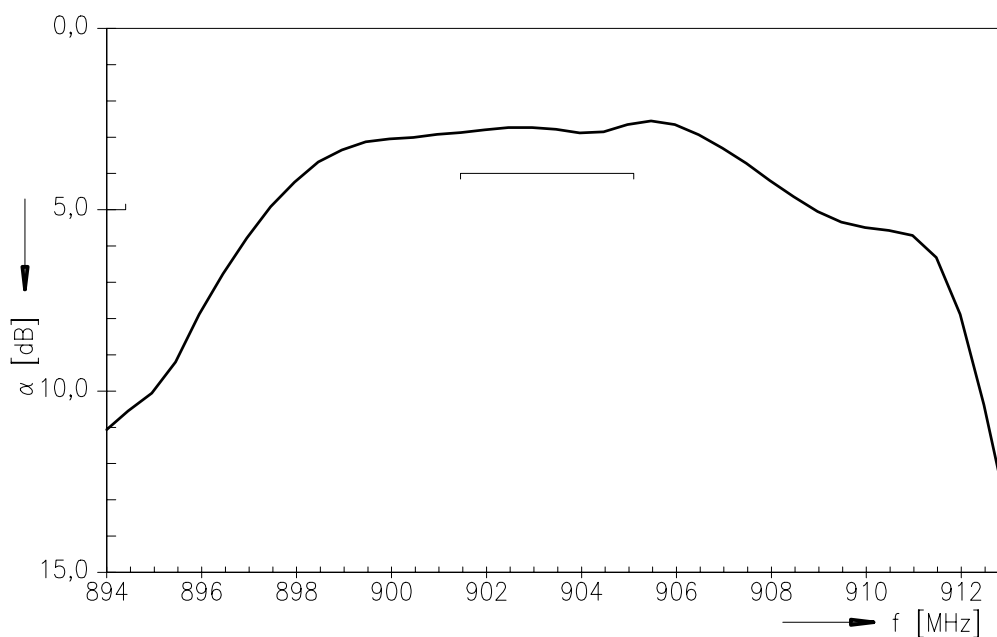
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926,25 MHz
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Data Sheet

Frequency response channel 1 : (passband)



Frequency response channel 2 : (passband)





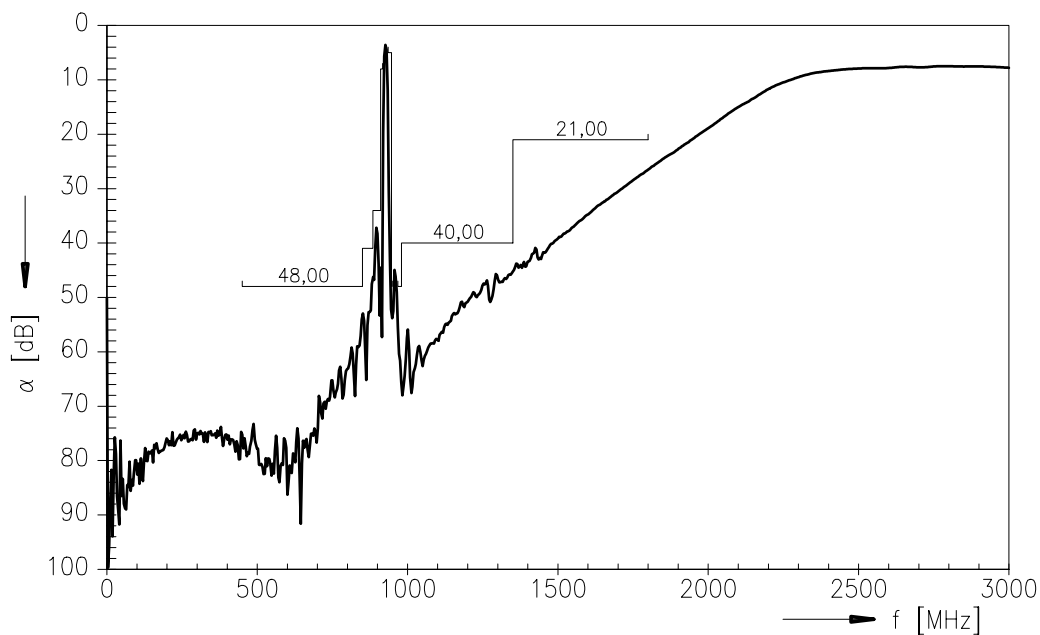
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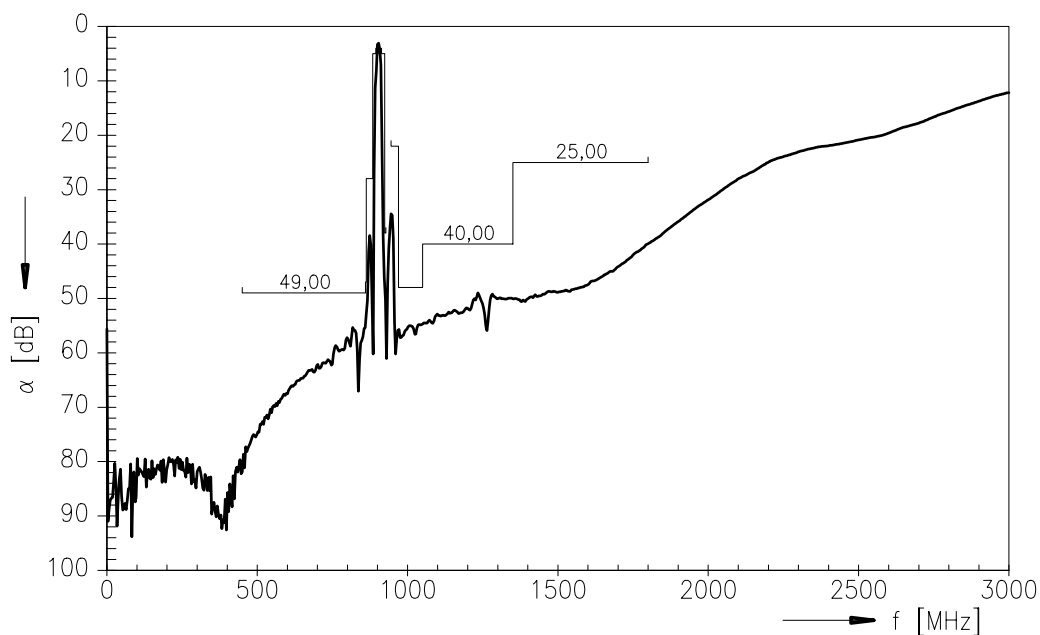
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Data Sheet

Frequency response channel 1 : (wideband)



Frequency response channel 1 : (wideband)





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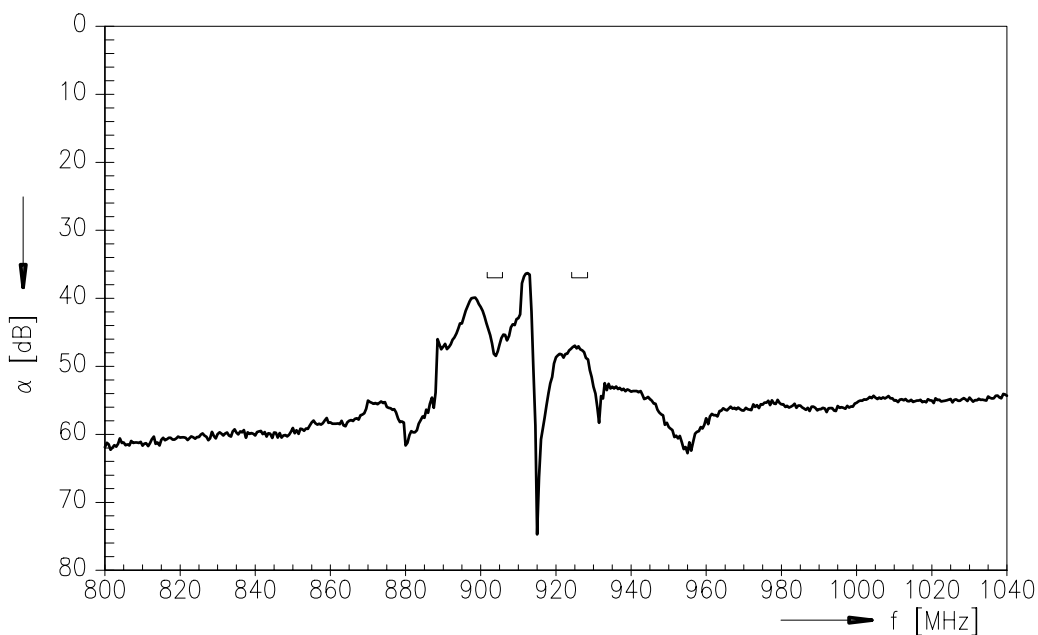
Data Sheet

Isolation between channel 1 and channel 2

Operating temperature range $T = 0 \text{ to } +55 \text{ }^{\circ}\text{C}$
Ant term. impedance $Z_{\text{Ant}} = 50 \text{ } \Omega$
Port 1 term. impedance $Z_{\text{Port 1}} = 50 \text{ } \Omega$
Port 2 term. impedance $Z_{\text{Port 2}} = 50 \text{ } \Omega$

		min.	typ.	max.	
Absolute attenuation	α				
	924,90 ... 928,15 MHz	37	47	—	dB
	901,45 ... 905,10 MHz	37	43	—	dB

Isolation between channel 1 and channel 2 :



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