



Siemens Matsushita Components

SAW Components Low-Loss Duplexer for Mobile Communication

B4018
926,25 MHz
903,75 MHz

Data Sheet

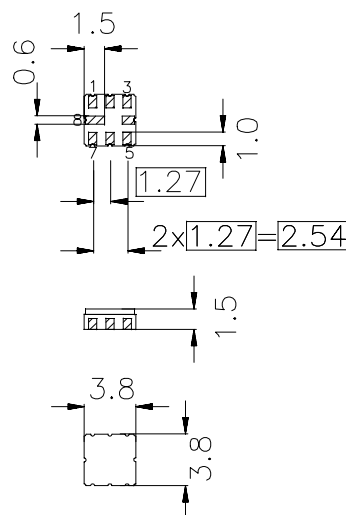
Features

- Compact RF duplexer for cordless telephone ISM
- No matching network required for operation at 50 Ω
- Ceramic package for Surface Mounted Technology (SMT)

Terminals

- Ni, gold-plated

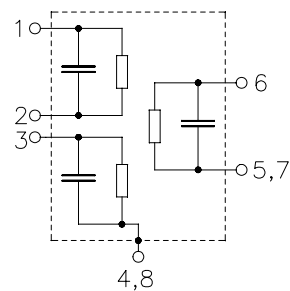
Ceramic package QCC8B



Dimensions in mm, approx. weight 0,07 g

Pin configuration

6	Ant
3	Rx
1	Tx
5, 7	Ant - ground
2	Tx - ground
4, 8	Case / Rx - ground



Type	Ordering code	Marking and Package according to	Packing according to
B4018	B39931-B4018-Z810	C61157-A7-A46	F61074-V8037-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	0 /+ 55	$^{\circ}\text{C}$
Storage temperature range	T_{stg}	- 40/+ 85	$^{\circ}\text{C}$
DC voltage	V_{DC}	0	V
Input power	P_{IN}	5	dBm



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Characteristics

Operable temperature range T = 0 to 55 °C

Ant term. impedance Z_{Ant} = 50 Ω

Rx term. impedance Z_{Rx} = 50 Ω

Tx term. impedance Z_{Tx} = 50 Ω

		min.	typ.	max.	
Center frequency Rx	f_c	—	926,25	—	MHz
Center frequency Tx	f_c	—	903,75	—	MHz
Maximum insertion attenuation	α_{max}				
Rx: 924,90 ... 928,15 MHz		—	3,6	4,5	dB
Tx: 901,45 ... 905,10 MHz		—	2,8	4,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
Rx: 924,90 ... 928,15 MHz		—	0,4	2,0	dB
Tx: 901,45 ... 905,10 MHz		—	0,5	2,0	dB
Absolute attenuation Rx	α				
450,00 ... 850,00 MHz		48	54	—	dB
850,00 ... 884,80 MHz		44	51	—	dB
884,80 ... 910,00 MHz		37	41	—	dB
910,00 ... 916,90 MHz		8	20	—	dB
935,00 ... 946,30 MHz		5	15	—	dB
946,30 ... 949,00 MHz		48	52	—	dB
967,70 ... 980,00 MHz		48	52	—	dB
980,00 ... 1350,00 MHz		40	46	—	dB
1350,00 ... 1800,00 MHz		23	33	—	dB
Absolute attenuation Tx	α				
450,00 ... 859,60 MHz		49	55	—	dB
859,60 ... 862,30 MHz		47	60	—	dB
862,30 ... 883,70 MHz		28	33	—	dB
883,70 ... 894,40 MHz		5	10	—	dB
913,15 ... 923,80 MHz		5	14	—	dB
923,80 ... 927,60 MHz		38	48	—	dB
945,20 ... 970,00 MHz		22	32	—	dB
970,00 ... 1050,00 MHz		48	57	—	dB
1050,00 ... 1350,00 MHz		40	47	—	dB
1350,00 ... 1800,00 MHz		21	27	—	dB
Absolute attenuation Isolation	α				
Rx: 924,90 ... 928,15 MHz		37	45	—	dB
Tx: 901,45 ... 905,10 MHz		37	41	—	dB



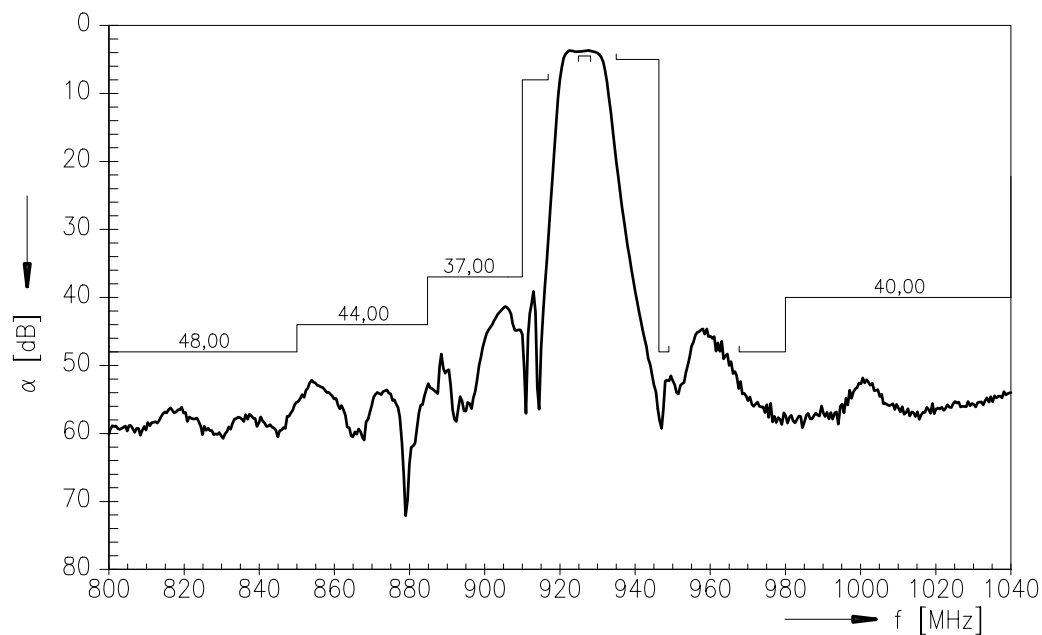
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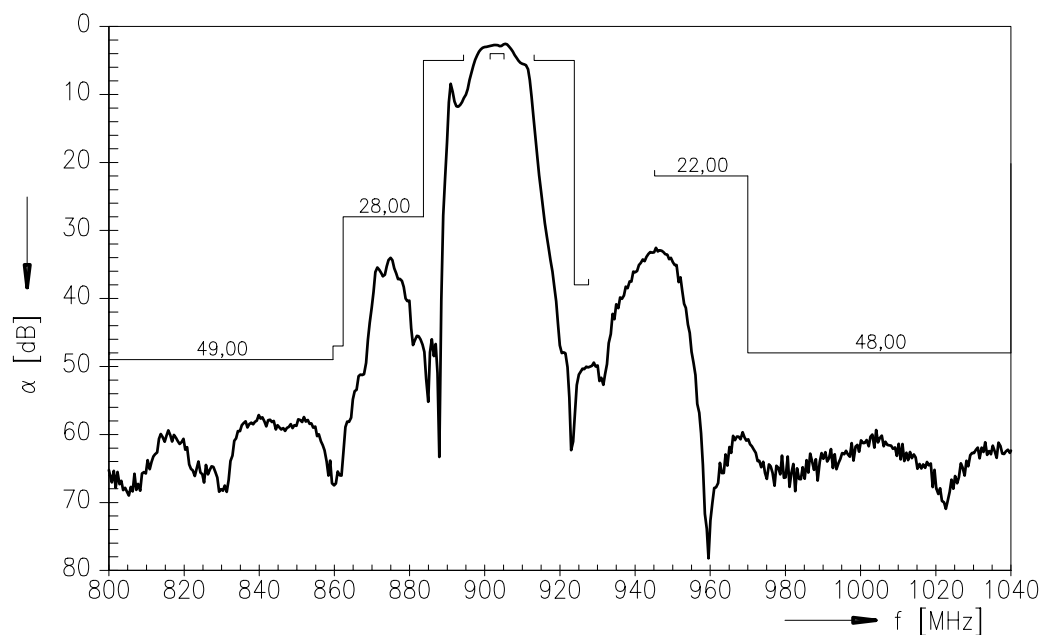
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Frequency response (Ant -> Rx) :



Frequency response (Tx ->Ant) :





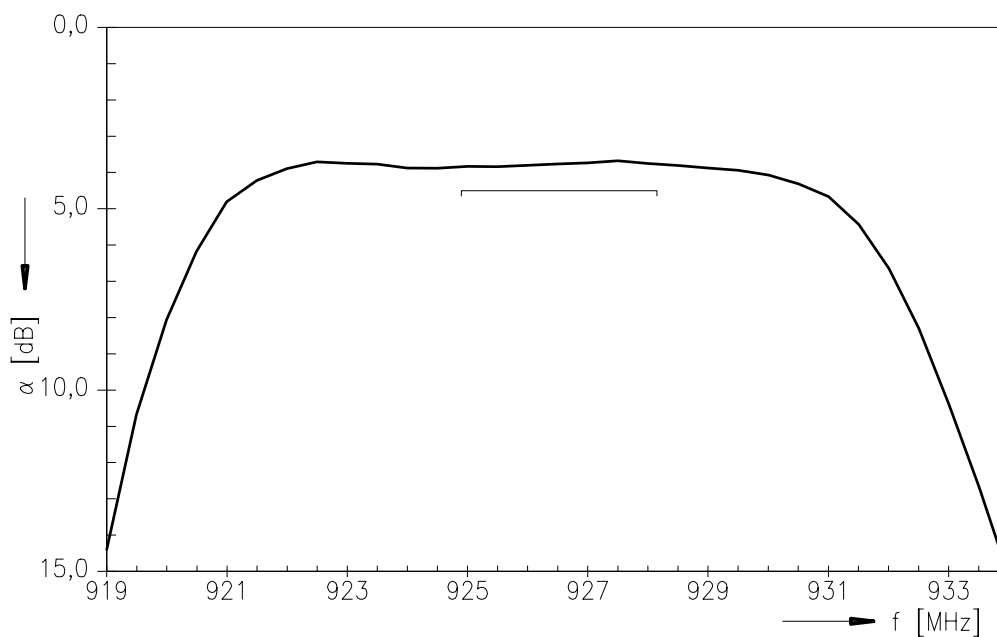
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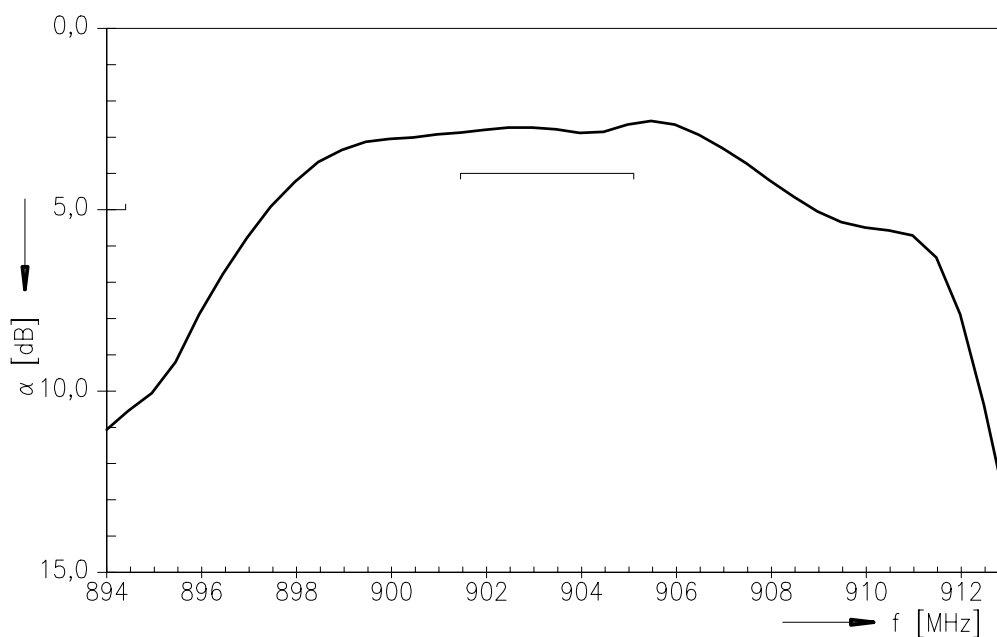
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Frequency response (Ant -> Rx) : (passband)



Frequency response (Tx -> Ant) : (passband)





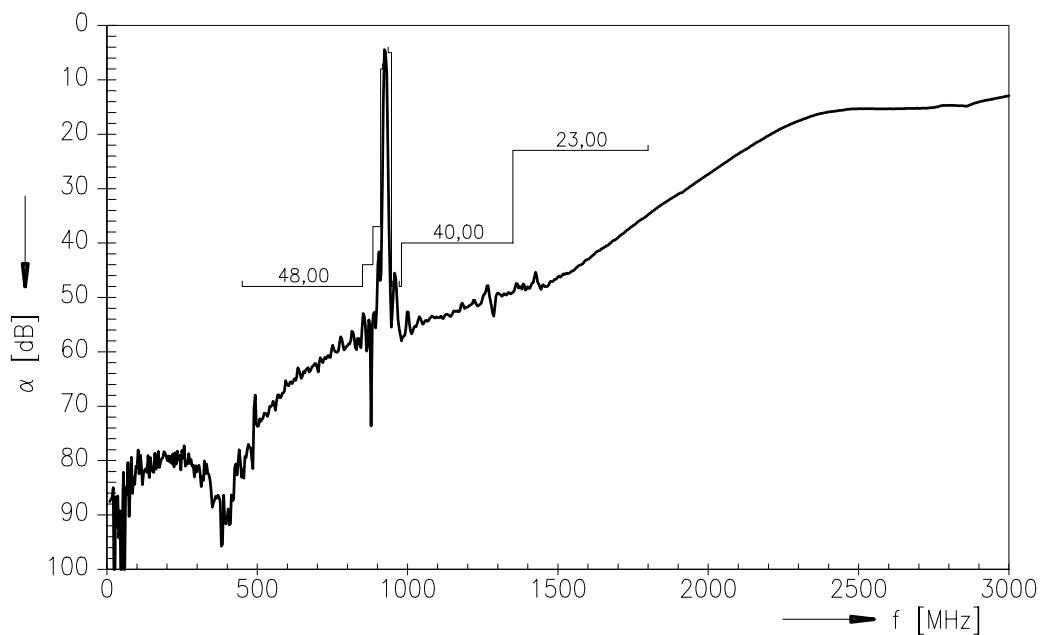
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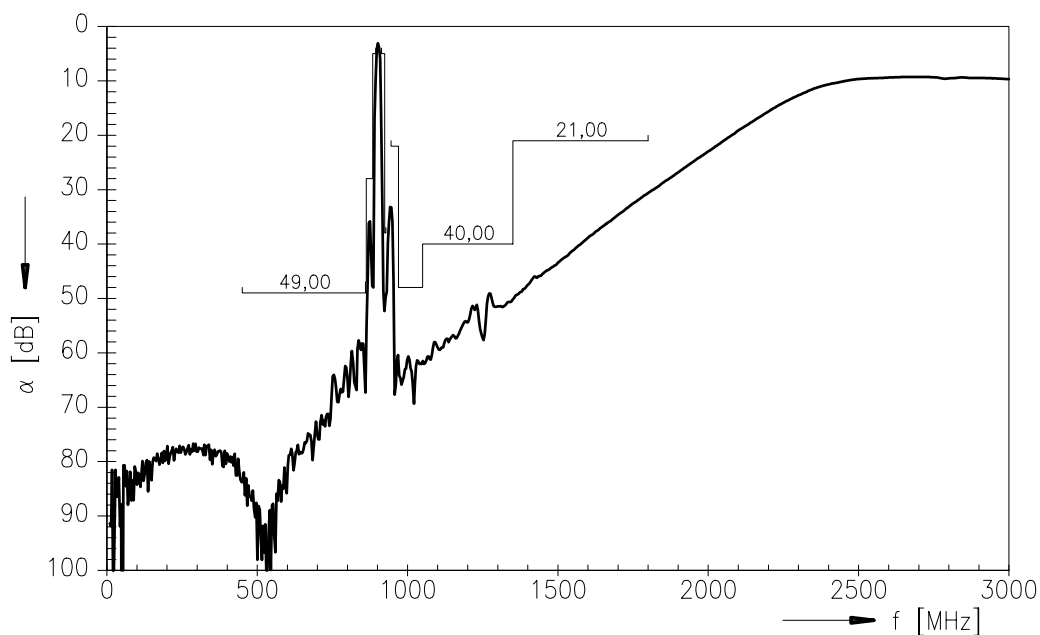
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Frequency response (Ant -> Rx) : (wideband)



Frequency response (Tx -> Ant) : (wideband)





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Isolation (Tx -> Rx) :

