



Siemens Matsushita Components

SAW Components

Low Loss Filter for Mobile Communication

B4684
947,50 MHz

Data Sheet

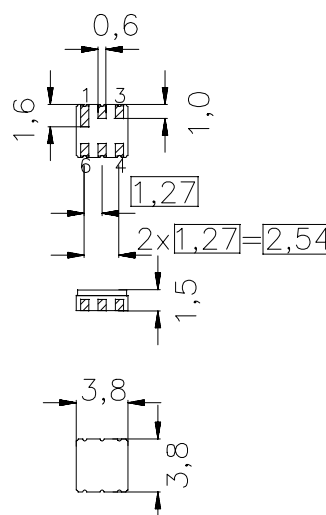
Ceramic package DCC6

Features

- Low-loss RF filter for mobile telephone, receive path
- Low amplitude ripple
- Usable passband 25 MHz
- No matching network required for operation at 50 Ω
- Ceramic package for Surface Mounted Technology (SMT)

Terminals

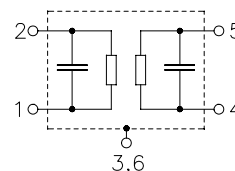
- Ni, gold-plated



Dimensions in mm, approx. weight 0,07 g

Pin configuration

2	Input
1	Input - ground
5	Output
4	Output - ground
3, 6	To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B4684	B39951-B4684-Z610	C61157-A7-A41	F61064-V8030-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 10/+ 75	$^{\circ}\text{C}$	
Storage temperature range	T_{stg}	- 40/+ 85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
Source power	P_{s}	10	dBm	source impedance 50 Ω



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Characteristics

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

			min.	typ.	max.	
Center frequency	f_c		—	947,50	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$					
	935,0 ... 960,0 MHz		—	3,0	3,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
	935,0 ... 960,0 MHz		—	0,7	1,0	dB
Attenuation	α					
	0,0 ... 600,0 MHz		50	65	—	dB
	600,0 ... 700,0 MHz		45	60	—	dB
	700,0 ... 890,0 MHz		40	50	—	dB
	890,0 ... 915,0 MHz		32	40	—	dB
	980,0 ... 1000,0 MHz		22	27	—	dB
	1000,0 ... 1030,0 MHz		35	40	—	dB
	1030,0 ... 1500,0 MHz		40	50	—	dB
	1500,0 ... 1900,0 MHz		35	48	—	dB
	1900,0 ... 2500,0 MHz		15	24	—	dB
	2500,0 ... 2900,0 MHz		10	18	—	dB



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Characteristics

Operating temperature range: $T = -10$ to $+75$ °C
Terminating source impedance: $Z_S = 50 \Omega$
Terminating load impedance: $Z_L = 50 \Omega$

			min.	typ.	max.	
Center frequency	f_c		—	947,50	—	MHz
Maximum insertion attenuation	α_{max}					
	935,0 ... 960,0 MHz		—	3,1	3,8	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
	935,0 ... 960,0 MHz		—	0,8	1,5	dB
Attenuation	α					
	0,0 ... 600,0 MHz		50	65	—	dB
	600,0 ... 700,0 MHz		45	60	—	dB
	700,0 ... 890,0 MHz		40	50	—	dB
	890,0 ... 915,0 MHz		32	40	—	dB
	980,0 ...1000,0 MHz		20	24	—	dB
	1000,0 ...1030,0 MHz		35	40	—	dB
	1030,0 ...1500,0 MHz		40	50	—	dB
	1500,0 ...1900,0 MHz		35	48	—	dB
	1900,0 ...2500,0 MHz		15	24	—	dB
	2500,0 ...2900,0 MHz		10	18	—	dB



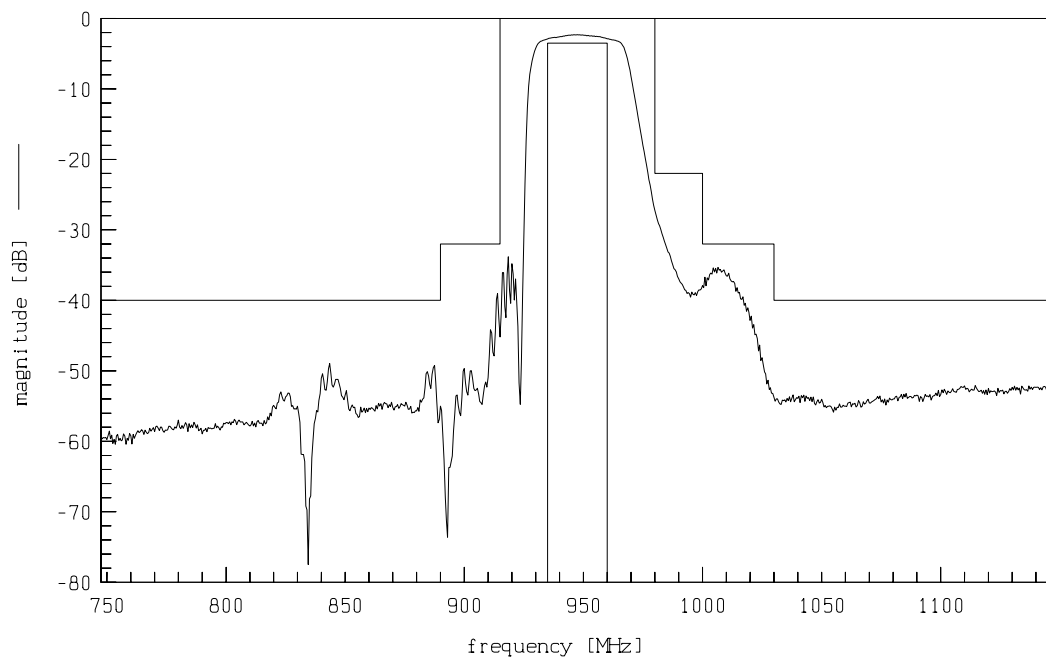
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Transfer function



Transfer function (wideband)

