

Siemens Matsushita Components

SAW Components

Low Loss Filter for Mobile Communication

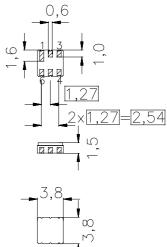
B4686 947,50 MHz

Data Sheet

Features

- Low-loss RF filter for mobile telephone GSM system, 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)

Ceramic package **DCC6**



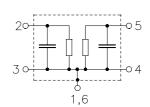
Terminals

• Ni, gold-plated

Dimensions in mm, approx. weight 0,07 g

Pin configuration

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



Туре	Ordering code	Marking and Package	Packing
		according to	according to
B4686	B39951-B4686-Z610	C61157-A7-A41	F61074-V8030-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 20 / + 80	°C	
Storage temperature range	$T_{ m stg}$	- 40 / + 85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Source power	P_{s}	10	dBm	source impedance 50 Ω



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Characteristics

Operating temperature range: $T = -20 \text{ to } +80^{\circ}\text{C}$

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

			min.	typ.	max.	
Center frequency		f _C	_	947,50	_	MHz
Maximum insertion attenuation		α_{max}				
935,0 960,0	MHz		_	1,6	2,0	dB
Amplitude ripple (p-p)		Δα				
935,0 960,0	MHz		_	0,6	1,0	dB
Input Return Loss						
935,0 960,0	MHz		10,0	14,0	_	dB
Output Return Loss						
935,0 960,0	MHz		10,0	13,0	_	dB
Attenuation		α				
0,0 890,0	MHz		15,0	18,0	_	dB
890,0 915,0			20,0	24,0	_	dB
980,01000,0	MHz		15,0	27,0	_	dB
1000,01300,0	MHz		19,0	21,0	_	dB
1300,01475,0	MHz		22,0	24,0	_	dB
1475,01550,0	MHz		26,0	29,0	_	dB
1550,02500,0	MHz		13,0	17,0	_	dB

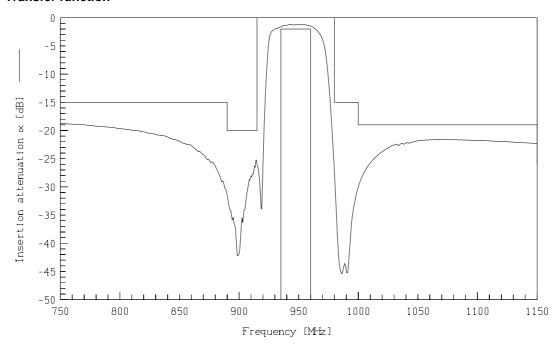


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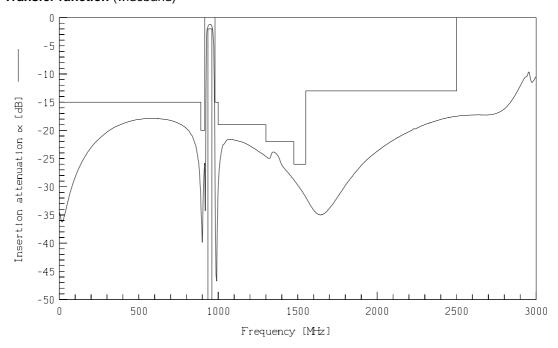
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Transfer function



Transfer function (wideband)





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Reflection functions

