



Siemens Matsushita Components

SAW Components Low Loss Filter for Mobile Communication

B4116
942,5 MHz

Data Sheet

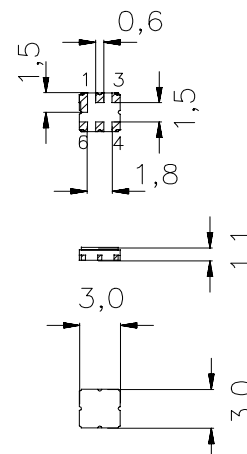
Ceramic package **DCC6C**

Features

- Low-loss RF filter for EGSM mobile telephone system, receive path
- Low amplitude ripple
- Usable passband 35 MHz
- Ceramic package for **Surface Mounted Technology (SMT)**

Terminals

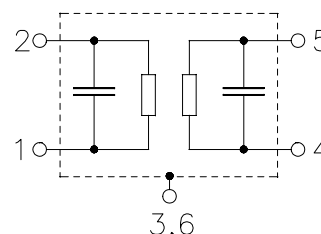
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing according to
B4116	B39941-B4116-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 20 / +75	°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	°C	
DC voltage	V_{DC}	3	V	
Input power max. 880 ... 915 MHz	P_{IN}	15	dBm	
elsewhere		0	dBm	



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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	—	942,5	—	MHz
Maximum insertion attenuation	α_{\max}				
925,0 ... 960,0 MHz		—	2,5	3,4	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
925,0 ... 960,0 MHz		—	0,8	1,7	dB
Attenuation	α				
0,0 ... 860,0 MHz		40	48	—	dB
860,0 ... 880,0 MHz		35	42	—	dB
880,0 ... 905,0 MHz		22	30	—	dB
905,0 ... 915,0 MHz		20	29	—	dB
976,7 ... 980,0 MHz		14	19	—	dB
980,0 ... 1005,0 MHz		19	23	—	dB
1005,0 ... 1050,0 MHz		30	37	—	dB
1050,0 ... 1500,0 MHz		40	44	—	dB
1500,0 ... 3000,0 MHz		15	25	—	dB



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

		min.	typ.	max.	
Center frequency	f_C	—	942,5	—	MHz
Maximum insertion attenuation	α_{max}				
925,0 ... 960,0 MHz		—	3,3	3,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
925,0 ... 960,0 MHz		—	1,6	1,8	dB
Attenuation	α				
0,0 ... 860,0 MHz		40	48	—	dB
860,0 ... 880,0 MHz		35	42	—	dB
880,0 ... 905,0 MHz		22	30	—	dB
905,0 ... 915,0 MHz		10	29	—	dB
976,7 ... 980,0 MHz		14	18	—	dB
980,0 ... 1005,0 MHz		18	22	—	dB
1005,0 ... 1050,0 MHz		30	37	—	dB
1050,0 ... 1500,0 MHz		40	44	—	dB
1500,0 ... 3000,0 MHz		15	25	—	dB



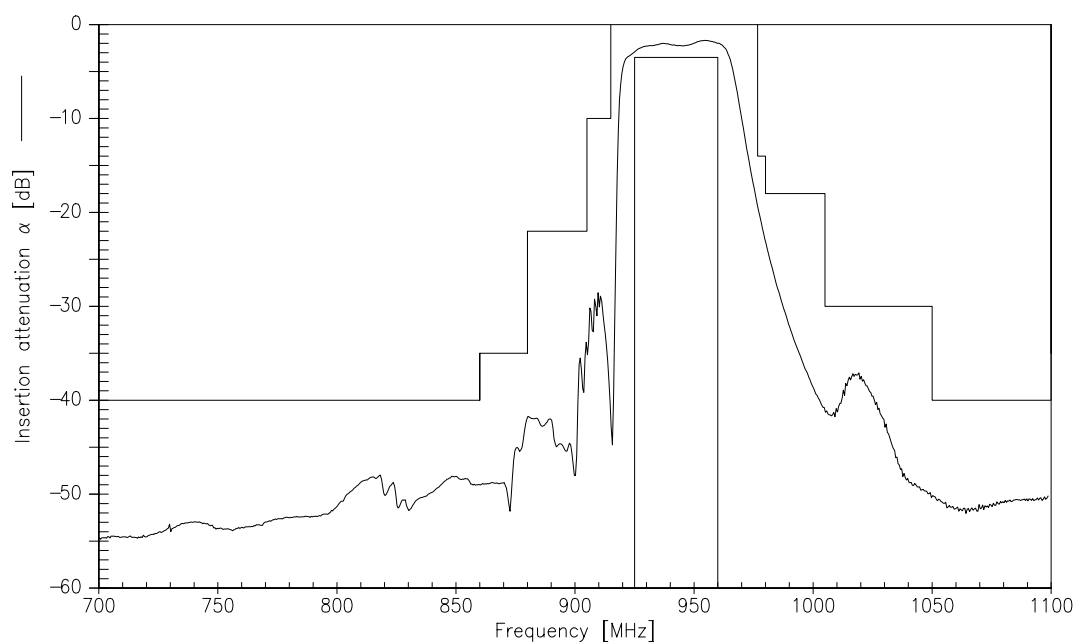
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Transfer function (measurement)



Transfer function (wideband; measurement)

