



Siemens Matsushita Components

SAW Components

Low Loss Filter for Mobile Communication

B4116

942,5 MHz

Data Sheet

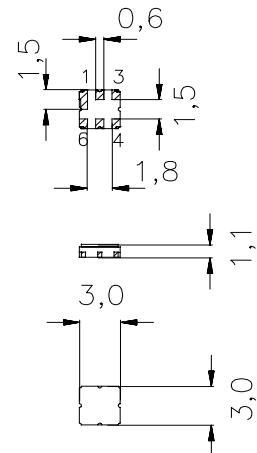
Ceramic package DCC6C

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

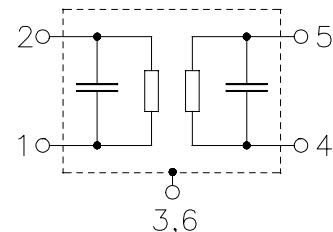
- Ni, gold-plated



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	
Storage temperature range	T_{stg}	-40 / +85	°C	
DC voltage	V_{DC}	3	V	
Input power max.				source and load impedance 50 Ω
880 ... 915 MHz	P_{IN}	15	dBm	peak power of GSM signal, duty cycle 1 : 8
elsewhere		0	dBm	continuous wave

Preliminary format of data sheet.

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Page 1 of 4

OFW E MF
Oct. 21, 1999



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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}	—	2,5	3,4	dB
	925,0 ... 960,0	MHz	—	—	—	
Amplitude ripple (p-p)		$\Delta\alpha$	—	0,8	1,7	dB
	925,0 ... 960,0	MHz	—	—	—	
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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Characteristics

Operating temperature range: $T = -20$ to $+75$ °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}	—	3,3	3,5	dB
	925,0 ... 960,0	MHz	—	3,3	3,5	dB
Amplitude ripple (p-p)		$\Delta\alpha$	—	1,6	1,8	dB
	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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Page 3 of 4

OFW E MF
Oct. 21, 1999



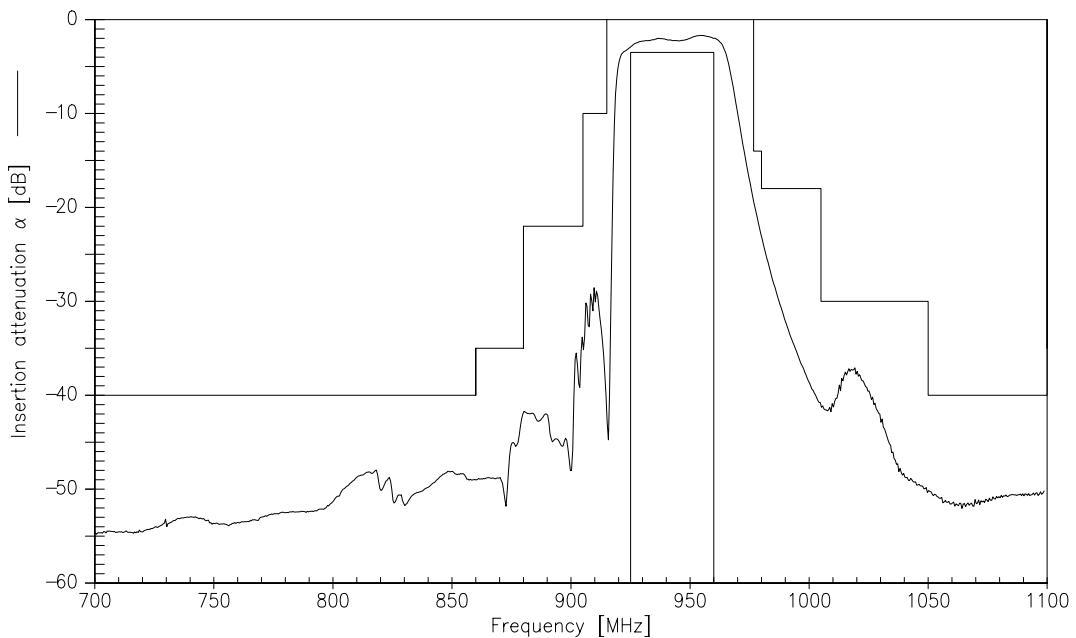
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Transfer function (measurement)



Transfer function (wideband; measurement)

