Siemens Matsushita Components

SAW Components
Low Loss Filter for Mobile Communication

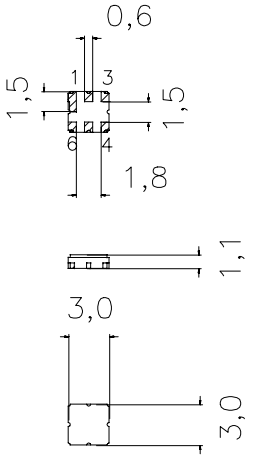
B4122
836,5 MHz

Data Sheet

Ceramic package **DCC6C**

Features

- Low-loss RF filter for AMPS mobile telephone system, transmit path
- Low amplitude ripple
- Usable passband 25 MHz
- Ceramic package for **S**urface **M**ounted **T**echnology (**SMT**)



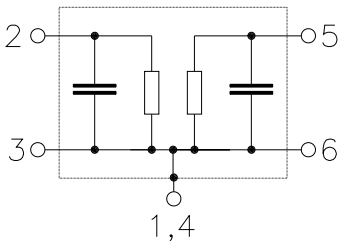
Terminals

- Ni, gold-plated

Dimensions in mm, approx. weight 0,04 g

Pin configuration

2	Input
3	Ground
5	Output
6	Ground
1, 4	Case ground



Type	Ordering code	Marking and Package according to	Packing according to
B4122	B39841-B4122-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic **S**ensitive **D**evice (**ESD**)

Maximum ratings

Operable temperature range	T	– 30 / + 85	˚C	
Storage temperature range	T_{stg}	– 40 / + 85	˚C	
DC voltage	V_{DC}	3	V	
Source power	P_s	0	dBm	source impedance 50 Ω

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Characteristics

Operating temperature range: T = -30 to +85 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Center frequency	f_C	—	836,5	—	MHz
Maximum insertion attenuation	α_{max}				
824,0 ... 849,0 MHz		—	2,6	3,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
824,0 ... 849,0 MHz		—	1,1	1,5	dB
VSWR					
824,0 ... 849,0 MHz		—	1,92	2,0	
Attenuation	α				
0,0 ... 800,0 MHz		30,0	50,0	—	dB
869,0 ... 894,0 MHz		32,0	34,0	—	dB
894,0 ... 920,0 MHz		34,0	40,0	—	dB
920,0 ...1210,0 MHz		40,0	55,0	—	dB
1210,0 ...1500,0 MHz		30,0	50,0	—	dB
1500,0 ...2000,0 MHz		25,0	50,0	—	dB
2000,0 ...2600,0 MHz		20,0	32,0	—	dB
2600,0 ...3000,0 MHz		15,0	28,0	—	dB

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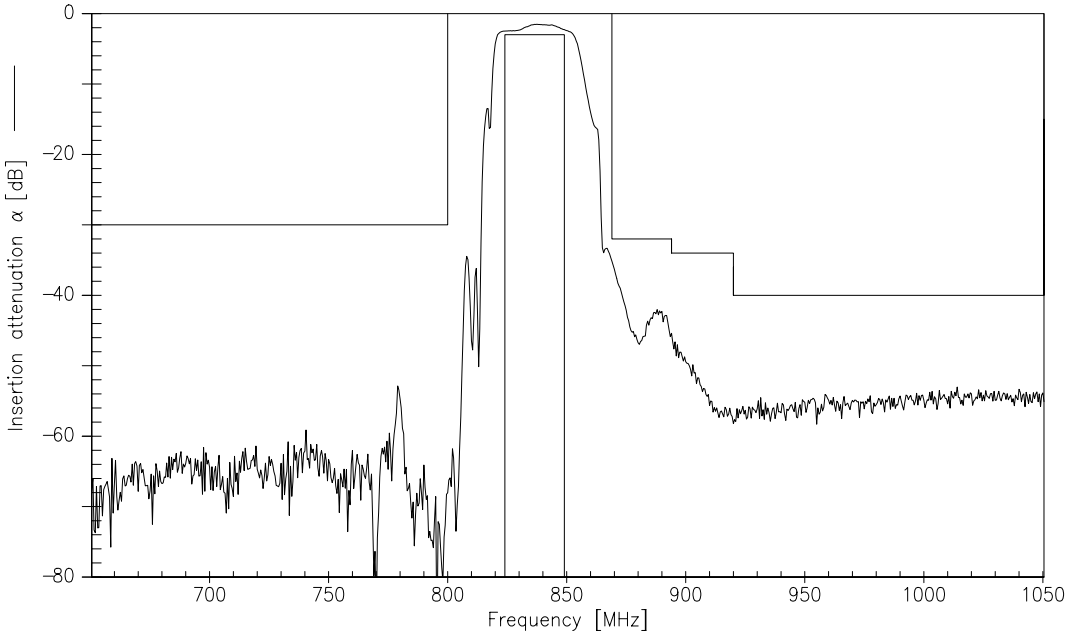
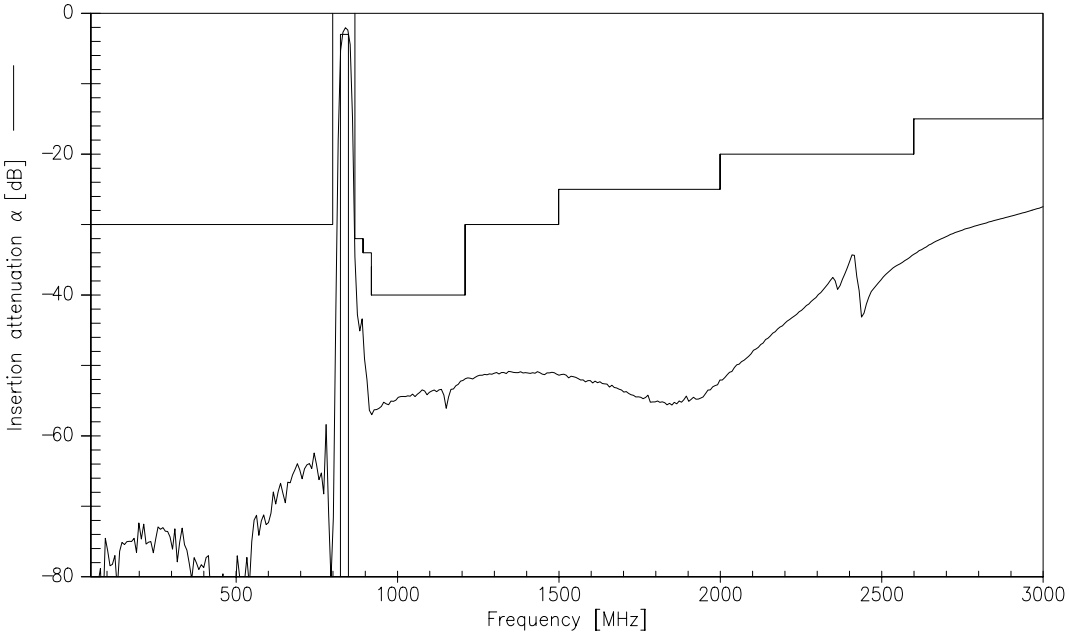
Transfer function

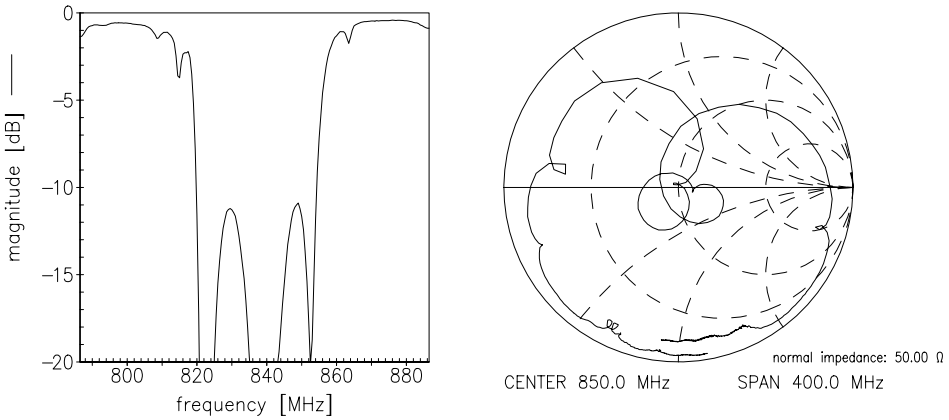


Transfer function (wideband)



Reflection functions

S_{11}



S_{22}