Siemens Matsushita Components

SAW Components
Low Loss Filter for Mobile Communication

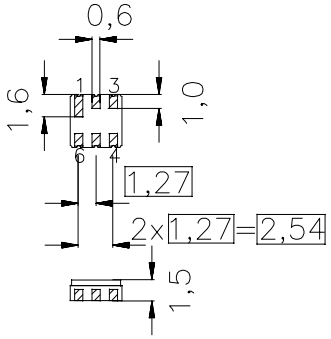
B4677
902,50 MHz

Data Sheet

Ceramic package **DCC6**

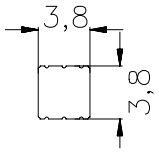
Features

- Low-loss RF filter for mobile telephone, transmit path
- Low amplitude ripple
- Usable passband 25 MHz
- No matching network required for operation at 50 Ω
- Ceramic package for **S**urface **M**ounted **T**echnology **(SMT)**



Terminals

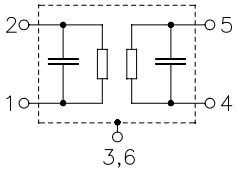
- Ni, gold-plated



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
B4677	B39901-B4677-Z610	C61157-A7-A41	F61064-V8030-Z000

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

Maximum ratings

Operable temperature range	T	– 10/+ 75	˚C	
Storage temperature range	T_{stg}	– 40/+ 85	˚C	
DC voltage	V_{DC}	0	V	
Source power	P_s	10	dBm	source impedance 50 Ω

Preliminary format of data sheet.
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OFW E MF
Feb, 16 1998

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Characteristics

Operating temperature range: T = 25 +- 2 C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Center frequency	f_c	—	902,50	—	MHz
Maximum insertion attenuation	α_{max}				
890,0 ... 915,0 MHz		—	3,0	3,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
890,0 ... 915,0 MHz		—	0,7	1,0	dB
Attenuation	α				
0,0 ... 600,0 MHz		60	70	—	dB
600,0 ... 700,0 MHz		50	66	—	dB
700,0 ... 813,0 MHz		45	53	—	dB
813,0 ... 850,0 MHz		40	50	—	dB
850,0 ... 870,0 MHz		30	42	—	dB
870,0 ... 880,0 MHz		6	30	—	dB
925,0 ... 935,0 MHz		8	15	—	dB
935,0 ... 980,0 MHz		25	32	—	dB
980,0 ...1200,0 MHz		45	53	—	dB
1200,0 ...1730,0 MHz		25	50	—	dB
1730,0 ...1870,0 MHz		30	50	—	dB
1870,0 ...2670,0 MHz		10	22	—	dB
2670,0 ...2745,0 MHz		15	20	—	dB
2745,0 ...3000,0 MHz		8	15	—	dB

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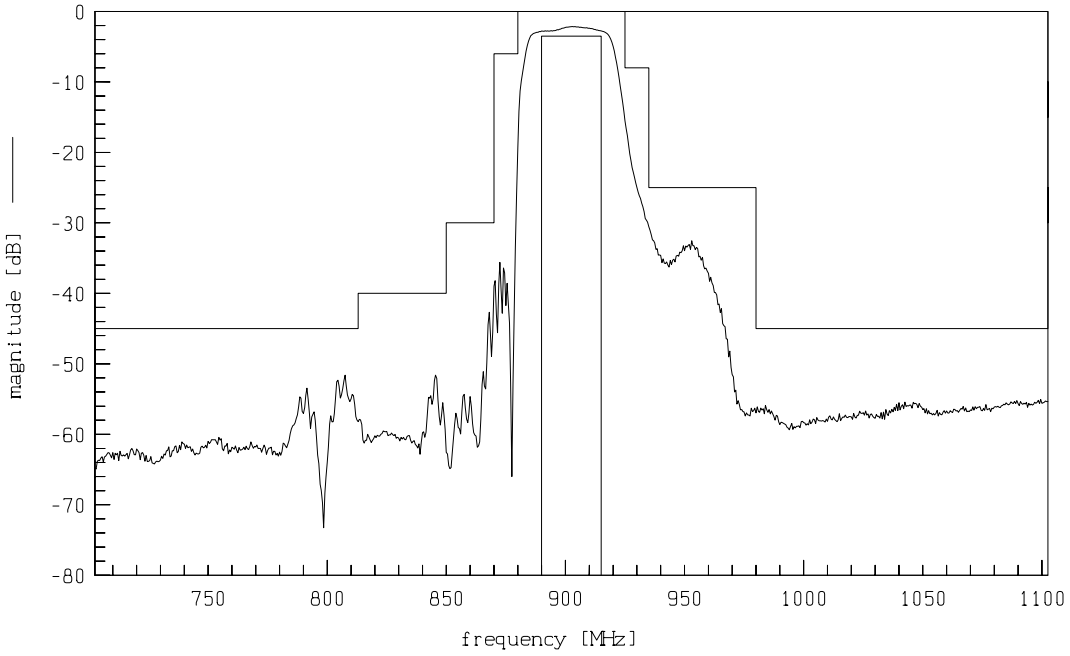
Characteristics

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

		min.	typ.	max.	
Center frequency	f_c	—	902,50	—	MHz
Maximum insertion attenuation	α_{max}				
890,0 ... 915,0 MHz		—	3,1	3,8	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
890,0 ... 915,0 MHz		—	0,8	1,5	dB
Attenuation	α				
0,0 ... 600,0 MHz		60	70	—	dB
600,0 ... 700,0 MHz		50	66	—	dB
700,0 ... 813,0 MHz		45	53	—	dB
813,0 ... 850,0 MHz		40	50	—	dB
850,0 ... 870,0 MHz		30	42	—	dB
870,0 ... 880,0 MHz		6	25	—	dB
925,0 ... 935,0 MHz		8	13	—	dB
935,0 ... 980,0 MHz		25	31	—	dB
980,0 ...1200,0 MHz		45	53	—	dB
1200,0 ...1730,0 MHz		25	50	—	dB
1730,0 ...1870,0 MHz		30	50	—	dB
1870,0 ...2670,0 MHz		10	22	—	dB
2670,0 ...2745,0 MHz		15	20	—	dB
2745,0 ...3000,0 MHz		8	15	—	dB

Data Sheet

Transfer function



Transfer function (wideband)