



Siemens Matsushita Components

SAW Components

Low Loss Filter for Mobile Communication

B4126
1747,5 MHz

Data Sheet

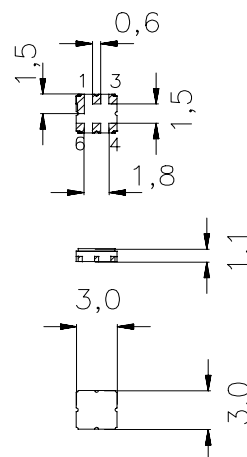
Ceramic package **DCC6C**

Features

- Low-loss RF filter for mobile telephone PCN system, transmit path
- High selectivity
- Usable passband: 75 MHz
- No matching network required for operation at 50 Ω
- Ceramic Package for **Surface Mounted Technology (SMT)**

Terminals

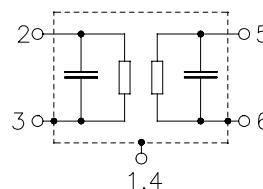
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing according to
B4126	B39172-B4126-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	$-20 / +70$	$^{\circ}\text{C}$	source and load impedance 50 Ω peak power of GSM signal, duty cycle 1 : 8 continuous wave
Storage temperature range	T_{stg}	$-40 / +85$	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
Input power max.	P_{IN}	5	dBm	
1710 ... 1785 MHz		0	dBm	
elsewhere		0	dBm	



Siemens Matsushita Components

SAW Components

Low Loss Filter for Mobile Communication

B4126
1747,5 MHz

Data Sheet

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		—	1747,5	—	MHz
Maximum insertion attenuation	α_{\max}					
	1710,0 ... 1785,0 MHz		—	3,5	4,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
	1710,0 ... 1785,0 MHz		—	2,0	2,5	dB
Input VSWR						
	1710,0 ... 1785,0 MHz		—	2,3	2,5	
Output VSWR						
	1710,0 ... 1785,0 MHz		—	2,3	2,5	
Attenuation	α					
	10,0 ... 1670,0 MHz		15,0	18,0	—	dB
	1670,0 ... 1690,0 MHz		10,0	25,0	—	dB
	1805,0 ... 1880,0 MHz		10,0	16,0	—	dB
	1880,0 ... 4500,0 MHz		15,0	21,0	—	dB
	4500,0 ... 5200,0 MHz		10,0	19,0	—	dB



Siemens Matsushita Components

SAW Components

Low Loss Filter for Mobile Communication

B4126
1747,5 MHz

Data Sheet

Characteristics

Operating temperature range: $T = -20$ to $+70^{\circ}\text{C}$
Terminating source impedance: $Z_S = 50\ \Omega$
Terminating load impedance: $Z_L = 50\ \Omega$

			min.	typ.	max.	
Center frequency	f_c		—	1747,5	—	MHz
Maximum insertion attenuation	α_{\max}					
	1710,0 ... 1785,0 MHz		—	3,5	4,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
	1710,0 ... 1785,0 MHz		—	2,0	2,5	dB
Input VSWR						
	1710,0 ... 1785,0 MHz		—	2,3	2,5	
Output VSWR						
	1710,0 ... 1785,0 MHz		—	2,3	2,5	
Attenuation	α					
	10,0 ... 1670,0 MHz		15,0	18,0	—	dB
	1670,0 ... 1690,0 MHz		6,0	17,0	—	dB
	1805,0 ... 1880,0 MHz		6,0	12,0	—	dB
	1880,0 ... 4500,0 MHz		15,0	21,0	—	dB
	4500,0 ... 5200,0 MHz		10,0	19,0	—	dB



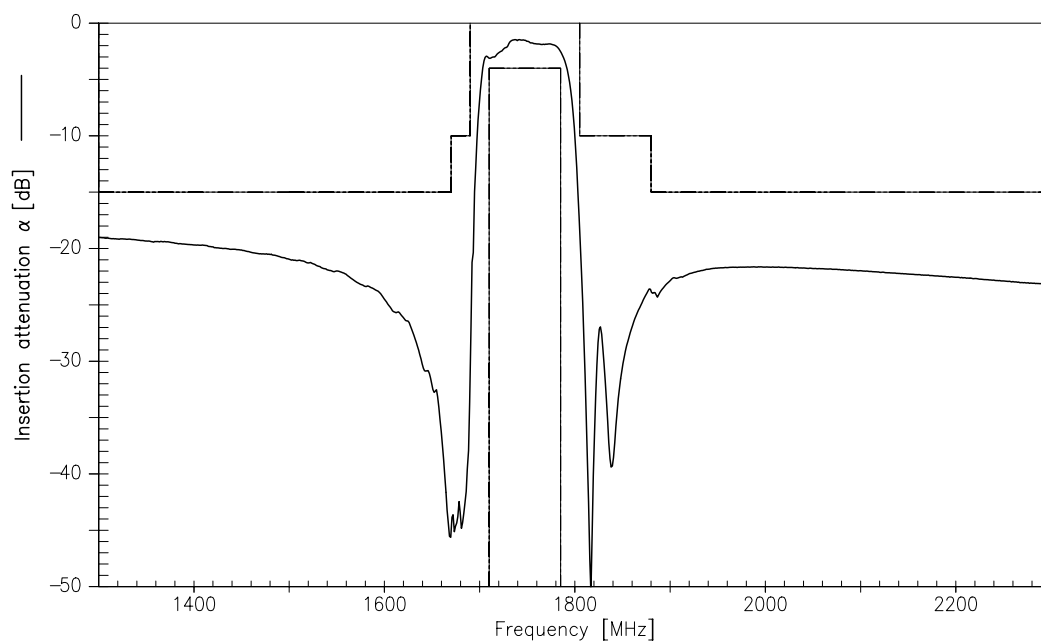
Siemens Matsushita Components

SAW Components Low Loss Filter for Mobile Communication

B4126
1747,5 MHz

Data Sheet

Transfer function (spec for 25°C)



Transfer function (wideband)

