Siemens Matsushita Components

SAW Components
Low Loss Filter for Mobile Communication

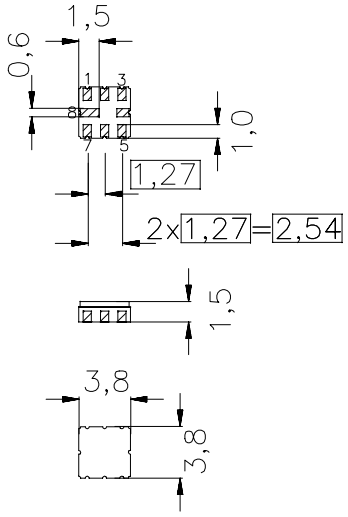
B4693
1842,5 MHz

Data Sheet

Ceramic package **QCC8B**

Features

- Low-loss RF filter for mobile telephone PCN system , receive path
- Low insertion attenuation
- Low amplitude ripple
- Usable passband: 75 MHz
- No matching network required for operation at 50 Ω
- Ceramic Package for **S**urface **M**ounted **T**echnology (**SMT**)



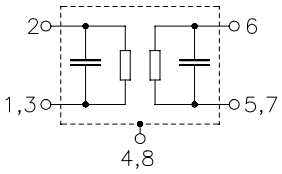
Dimensions in mm, approx. weight 0,07 g

Terminals

- Ni, gold-plated

Pin configuration

2	Input
1, 3	Input - ground
6	Output
5, 7	Output - ground
4, 8	To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B4693	B39182-B4693-Z810	C61157-A7-A46	F61074-V8037-Z000

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

Maximum ratings

Operable temperature range	T	– 25 / + 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

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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	—	1842,5	—	MHz
Maximum insertion attenuation			α_{max}				
	1805,0	...1880,0	MHz	—	2,4	3,0	dB
Amplitude ripple (p-p)			$\Delta\alpha$				
	1805,0	...1880,0	MHz	—	1,0	1,6	dB
Attenuation			α				
	10,0	...1250,0	MHz	20,0	22,0	—	dB
	1250,0	...1450,0	MHz	22,0	24,0	—	dB
	1450,0	...1650,0	MHz	24,0	26,0	—	dB
	1650,0	...1710,0	MHz	20,0	27,0	—	dB
	1710,0	...1765,0	MHz	15,0	22,0	—	dB
	1765,0	...1785,0	MHz	7,0	15,0	—	dB
	1920,0	...1980,0	MHz	13,0	32,0	—	dB
	1980,0	...2179,0	MHz	30,0	32,0	—	dB
	2179,0	...2254,0	MHz	32,5	35,0	—	dB
	2254,0	...3000,0	MHz	15,0	17,0	—	dB

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Characteristics

Operating temperature range: T = -25 to +75˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

				min.	typ.	max.	
Center frequency			f_c	—	1842,5	—	MHz
Maximum insertion attenuation			α_{max}				
	1805,0	...1880,0	MHz	—	2,4	3,0	dB
Amplitude ripple (p-p)			$\Delta\alpha$				
	1805,0	...1880,0	MHz	—	1,0	1,6	dB
Attenuation			α				
	10,0	...1250,0	MHz	20,0	22,0	—	dB
	1250,0	...1450,0	MHz	22,0	24,0	—	dB
	1250,0	...1450,0	MHz	24,0	26,0	—	dB
	1650,0	...1710,0	MHz	20,0	27,0	—	dB
	1710,0	...1765,0	MHz	15,0	22,0	—	dB
	1765,0	...1785,0	MHz	5,0	15,0	—	dB
	1920,0	...1980,0	MHz	10,0	32,0	—	dB
	1980,0	...2179,0	MHz	30,0	32,0	—	dB
	2179,0	...2254,0	MHz	32,5	35,0	—	dB
	2254,0	...3000,0	MHz	15,0	17,0	—	dB

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Transfer function (spec for 25°C)