



Siemens Matsushita Components

SAW Components

Low Loss Filter for Mobile Communication

B4038
465,14 MHz

Data Sheet

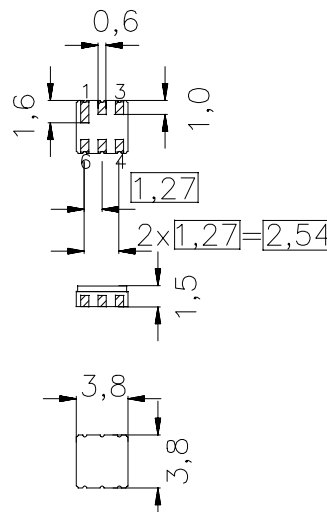
Features

- Low loss RF filter for US family radio system
- Low amplitude ripple
- High image frequency suppression
- Package for **Surface Mounted Technology (SMT)**
- No matching network required for operation at 50 Ω

Terminals

- Ni, gold-plated

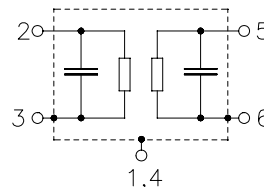
Ceramic package DCC6



Dimensions in mm, approx. weight 0,13 g

Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing according to
B4038	B39471-B4038-Z610	C61157-A7-A41	F61074-V8030-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	-20 / +60	$^{\circ}\text{C}$
Storage temperature range	T_{stg}	-40 / +85	$^{\circ}\text{C}$
DC voltage	V_{DC}	0	V
Source power	P_s	10	dBm



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Characteristics

Operating temperature range: $T = -20 \text{ to } +60 \text{ }^{\circ}\text{C}$
Terminating source impedance: $Z_S = 50 \text{ } \Omega$
Terminating load impedance: $Z_L = 50 \text{ } \Omega$

		min.	typ.	max.	
Center frequency	f_c	—	465,14	—	MHz
Maximum insertion attenuation 462,5625 ... 467,7125 MHz	α_{\max}	—	2,2	2,8	dB
Amplitude ripple (p-p) 462,5625 ... 467,7125 MHz	$\Delta\alpha$	—	0,3	1,0	dB
Attenuation 365,00 ... 419,16 MHz	α_{\min}	50,0	60,0	—	dB
419,16 ... 424,31 MHz		55,0	62,0	—	dB
424,31 ... 455,70 MHz		8,0	12,0	—	dB
455,70 ... 456,86 MHz		4,0	8,0	—	dB
530,00 ... 565,00 MHz		50,0	60,0	—	dB
Impedance at 465,14 MHz Input: $Z_{IN} = R_{IN} \parallel C_{IN}$ Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	50 \parallel 0,5 50 \parallel 0,5	—	$\Omega \parallel \text{pF}$ $\Omega \parallel \text{pF}$
Temperature coefficient of frequency	TC_f	—	-70	—	ppm/K



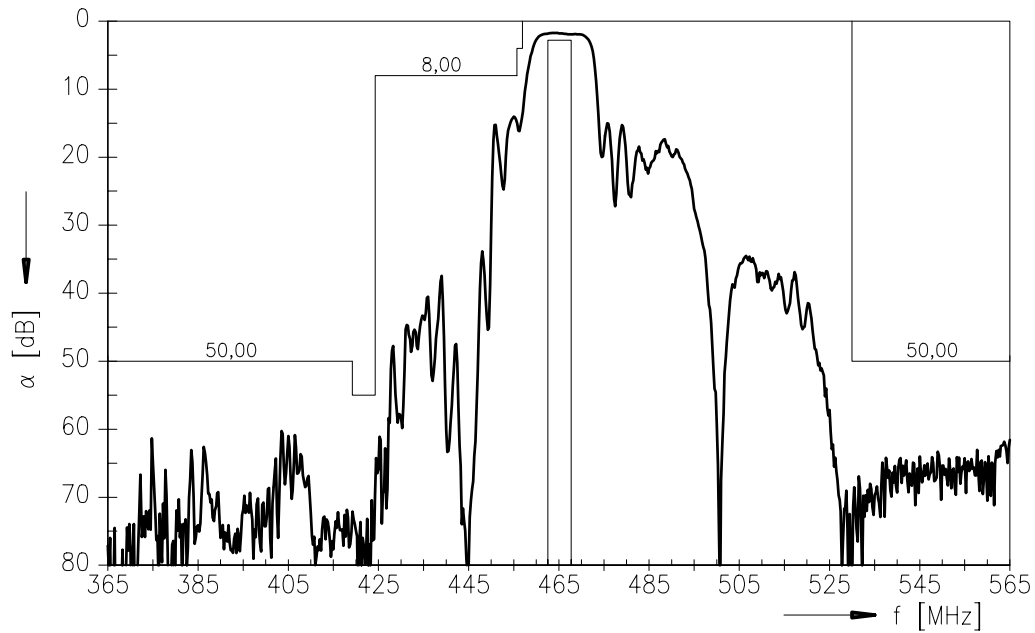
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Transfer function



Transfer function (wideband)

