



Siemens Matsushita Components

SAW Components

Low Loss Filter for Mobile Communication

B4039
433,91 MHz

Data Sheet

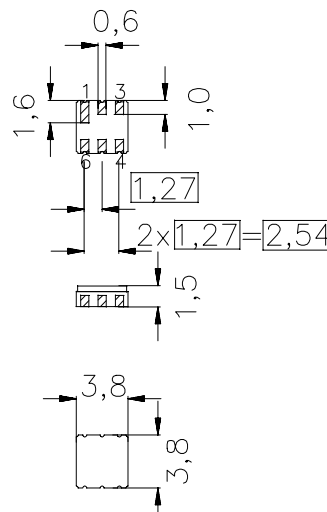
Features

- Low loss RF filter for Europe 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

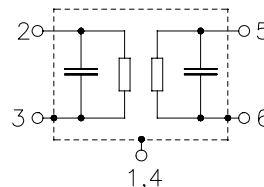
Ceramic package DCC6



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
B4039	B39431-B4039-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	—	433,91	—	MHz
Maximum insertion attenuation 432,975 ... 434,850 MHz	$\alpha_{\max}$	—	2,2	2,8	dB
Amplitude ripple (p-p) 432,975 ... 434,850 MHz	$\Delta\alpha$	—	0,3	1,0	dB
Attenuation 330,00 ... 389,00 MHz 389,00 ... 392,00 MHz 392,00 ... 423,90 MHz 495,00 ... 530,00 MHz	$\alpha_{\min}$	52,0 57,0 11,0 52,0	60,0 70,0 13,0 60,0	— — — —	dB dB dB dB
Impedance at 433,91 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



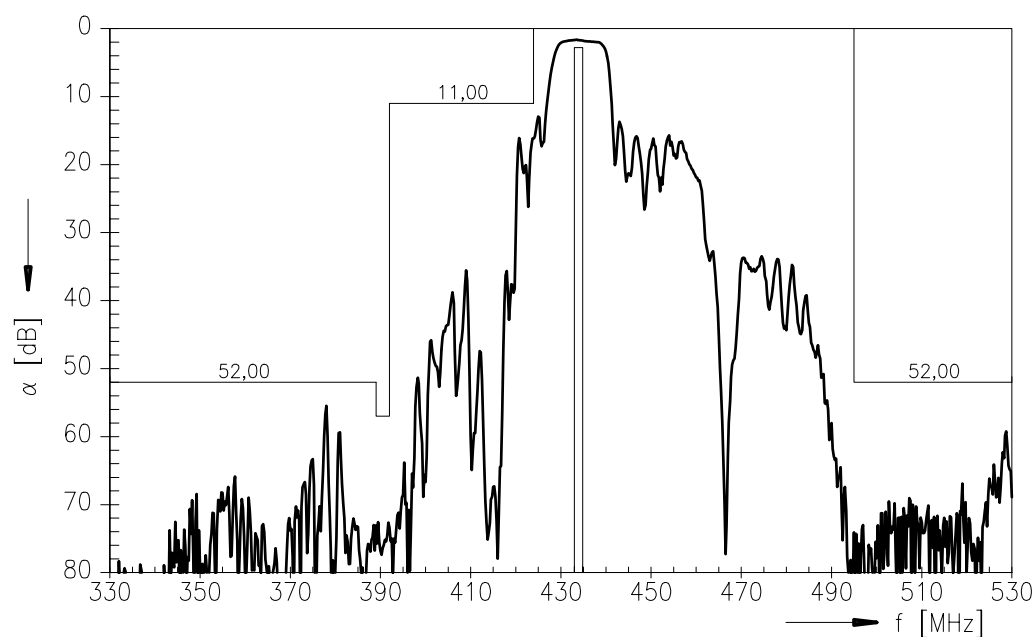
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Transfer function



Transfer function (wideband)

