



SAW Components

Data Sheet B3852

Data Sheet

A large, stylized, 3D-rendered graphic of the word "EPCOS" in a light gray, sans-serif font. The letters are tilted and appear to be floating or emerging from a dark, textured background that resembles a globe or a complex circuit board. The overall effect is a sense of depth and modernity.



SAW Components

B3852

Low-Loss Filter

1047,65 MHz

Data Sheet

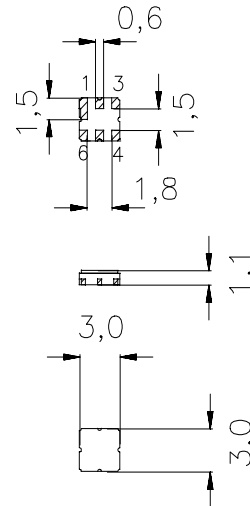
Ceramic package DCC6C

Features

- Low-loss LO filter for iDEN phone
- Usable bandwidth 6 MHz
- No matching required for operation at 50 Ω
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

Terminals

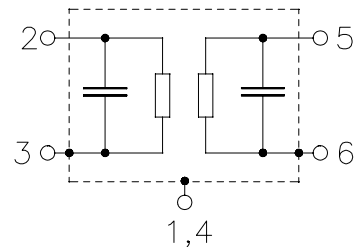
- Gold-plated



typ. Dimensions in mm, approx. weight 0,037 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
B3852	B39102-B3852-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_A	-35 / +85	$^{\circ}\text{C}$	
Storage temperature range	T_{stg}	-40 / +85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
Source power (cw)	P_s	0	dBm	source impedance 50 Ω



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Characteristics

Operating temperature range: $T_A = 25 \pm 2 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ }\Omega$
 Terminating load impedance: $Z_L = 50 \text{ }\Omega$

		min.	typ.	max.	
Nominal frequency	f_N	—	1047,65	—	MHz
Maximum insertion attenuation 1044,65 MHz ... 1050,65 MHz	α_{\max}	—	1,65	2,0	dB
Amplitude ripple (p-p) 1044,65 MHz ... 1050,65 MHz	$\Delta\alpha$	—	0,1	0,6	dB
Return loss (Input and Output) 1044,65 MHz ... 1050,65 MHz		14,0	17,0	—	dB
Absolute attenuation	α_{abs}				
0,1 MHz ... 935,0 MHz		40	53	—	dB
935,0 MHz ... 941,0 MHz		40	53	—	dB
1154,3 MHz ... 1160,3 MHz		40	50	—	dB
1160,3 MHz ... 2200,0 MHz		25	42	—	dB
2200,0 MHz ... 3000,0 MHz		23	38	—	dB
Temperature coefficient of frequency	TC_f	—	– 36	—	ppm/K



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Characteristics

Operating temperature range: $T_A = -30 \dots +70 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ }\Omega$
 Terminating load impedance: $Z_L = 50 \text{ }\Omega$

		min.	typ.	max.	
Nominal frequency	f_N	—	1047,65	—	MHz
Maximum insertion attenuation 1044,65 MHz ... 1050,65 MHz	α_{\max}	—	1,8	2,5	dB
Amplitude ripple (p-p) 1044,65 MHz ... 1050,65 MHz	$\Delta\alpha$	—	0,3	1,0	dB
Return loss (Input and Output) 1044,65 MHz ... 1050,65 MHz		14,0	16,0	—	dB
Absolute attenuation	α_{abs}				
0,1 MHz ... 935,0 MHz		40	53	—	dB
935,0 MHz ... 941,0 MHz		40	53	—	dB
1154,3 MHz ... 1160,3 MHz		40	50	—	dB
1160,3 MHz ... 2200,0 MHz		25	42	—	dB
2200,0 MHz ... 3000,0 MHz		23	38	—	dB
Temperature coefficient of frequency	TC_f	—	– 36	—	ppm/K



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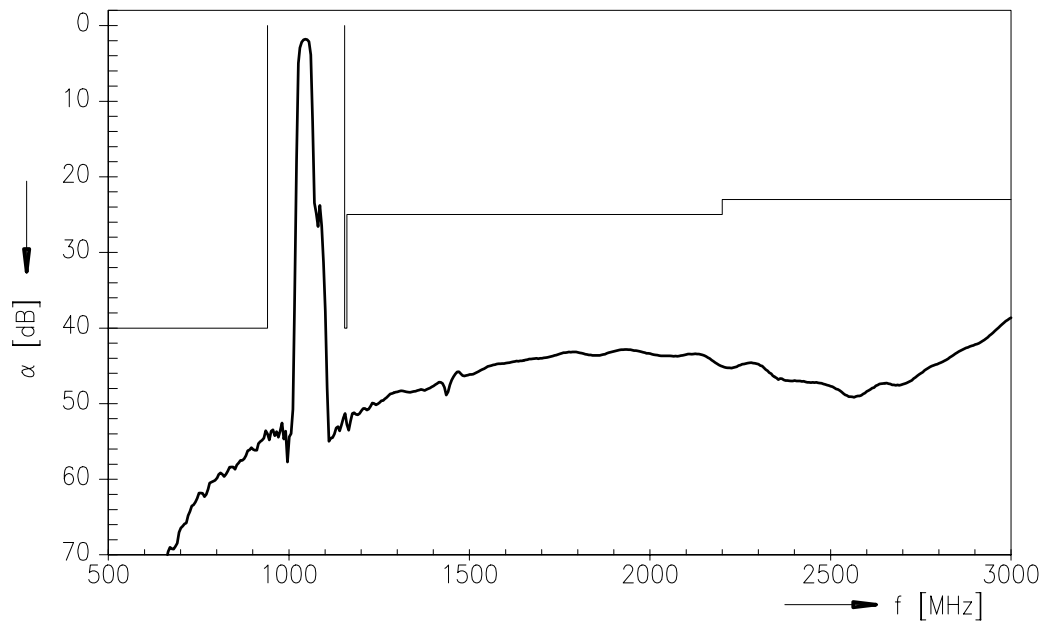
B3852

Low-Loss Filter

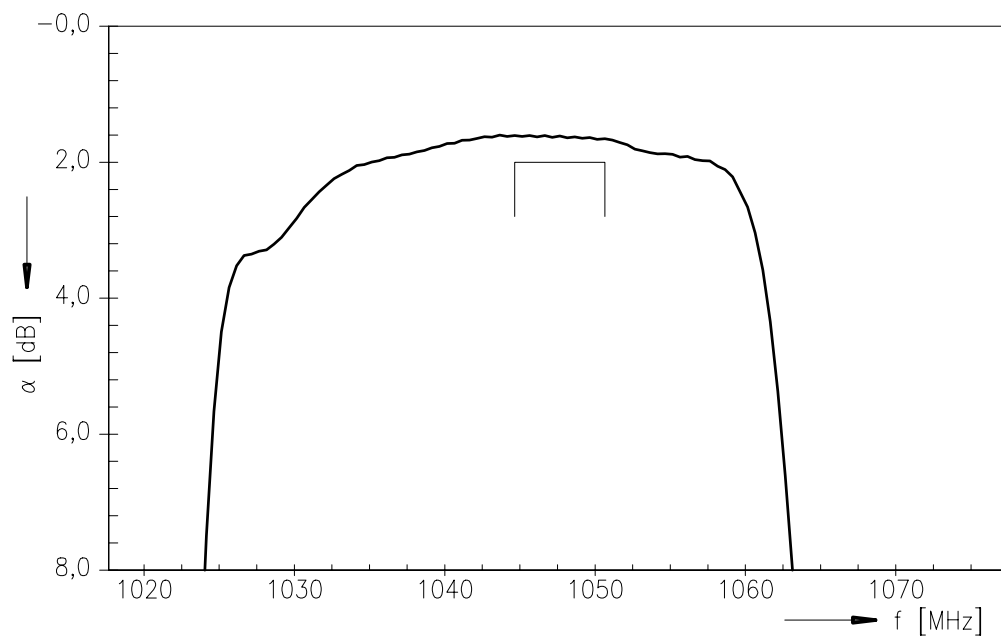
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Transfer function



Transfer function (pass band, 25 °C)





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