



SAW Components

Preliminary Data B3711

Data Sheet

An abstract, grayscale graphic featuring a large, stylized, and slightly blurred "EPCOS" logo. The logo is set against a background of curved, overlapping bands and a faint world map, creating a sense of global connectivity and technological advancement.



SAW Components

B3711

Low Loss Filter

315,00 MHz

Preliminary Data

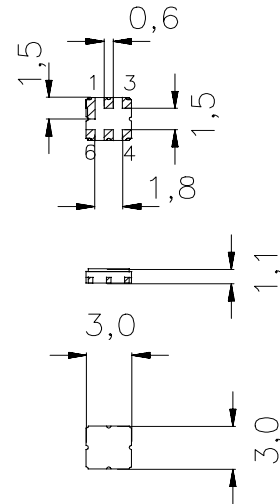
Features

- RF low-loss filter for remote control application
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package
- No matching network required for operation at 50 Ω
- Passivation layer: Elpas

Terminals

- Ni, gold-plated

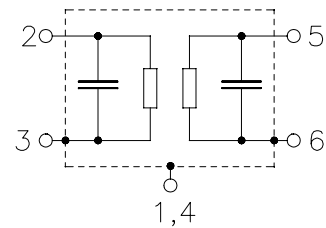
Ceramic package DCC6C



Dimensions in mm, approx. weight 0,037 g

Pin configuration

2	Input
5	Output
1, 3, 4, 6	Ground



Type	Ordering code	Marking and Package according to	Packing according to
B3711	B39321-B3711-U410	C61157-A7-A67	F61074-V8168-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	-40/+85	$^{\circ}\text{C}$	
Storage temperature range	T_{stg}	-45/+90	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
Source power	P_{S}	10	dBm	source impedance 50 Ω



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Characteristics

Operating temperature range: $T = -40 \dots 85^\circ\text{C}$

Terminating source impedance: $Z_S = 50 \Omega$

Terminating load impedance: $Z_L = 50 \Omega$

		min.	typ.	max.	
Center frequency	f_c	—	315,00	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$	—	1,7	2,5	dB
	314,70 ... 315,30 MHz	—	1,7	2,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$	—	0,4	1,2	dB
	314,70 ... 315,30 MHz	—	0,4	1,2	dB
Input VSWR		—	1,2	1,6	dB
	314,70 ... 315,30 MHz	—	1,2	1,6	dB
Output VSWR		—	1,2	1,6	dB
	314,70 ... 315,30 MHz	—	1,2	1,6	dB
Relative attenuation (relative to $\alpha_{\max}$)	α_{rel}				
	270,00 ... 286,00 MHz	55	60	—	dB
	293,00 ... 293,90 MHz	53	58	—	dB
	304,00 ... 304,60 MHz	48	53	—	dB
	325,40 ... 326,00 MHz	24	31	—	dB
	336,10 ... 337,00 MHz	36	41	—	dB
	357,50 ... 358,70 MHz	50	55	—	dB
Temperature coefficient of frequency	TC_f	—	-30	—	ppm/K



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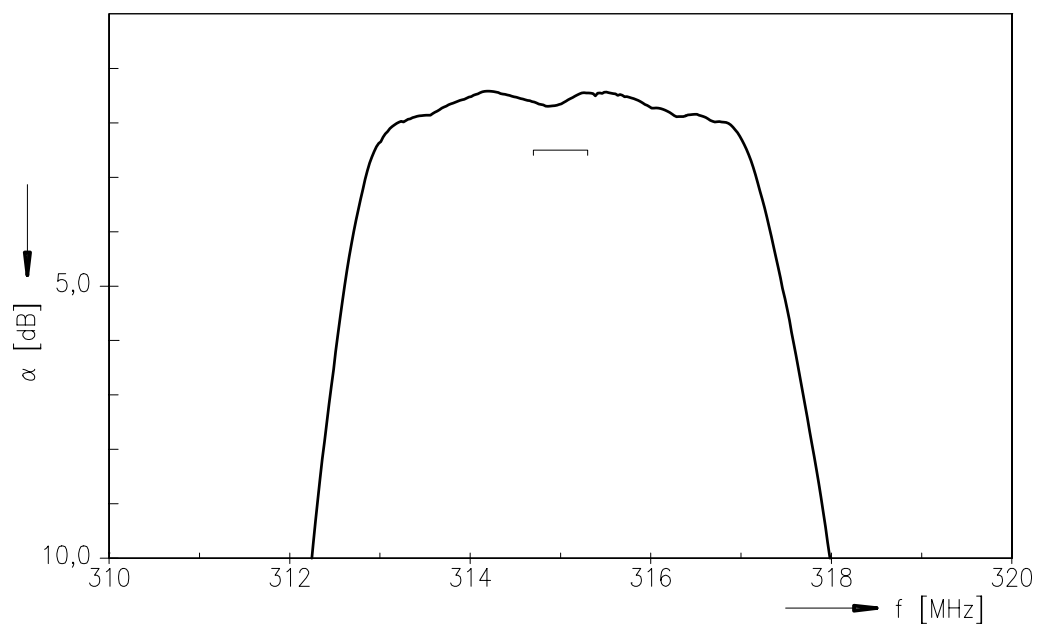
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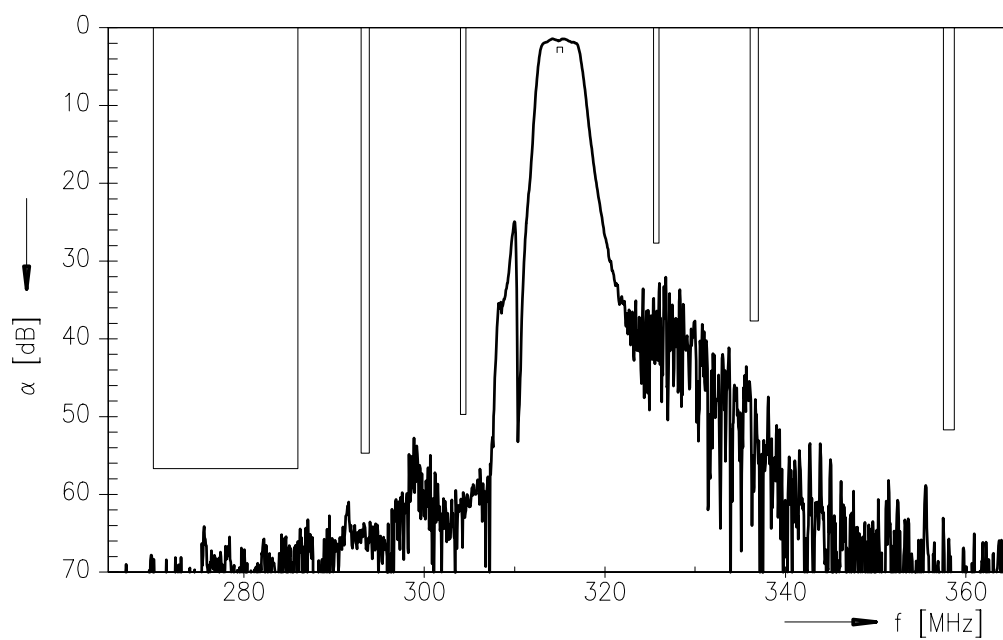
315,00 MHz

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Transfer function



Transfer function (wideband)





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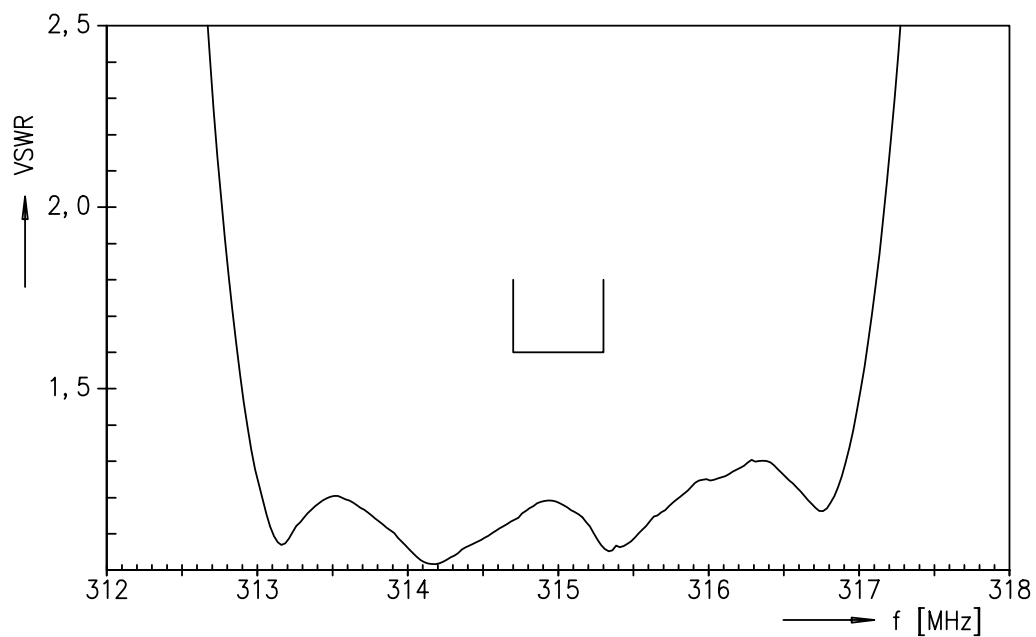
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Low Loss Filter

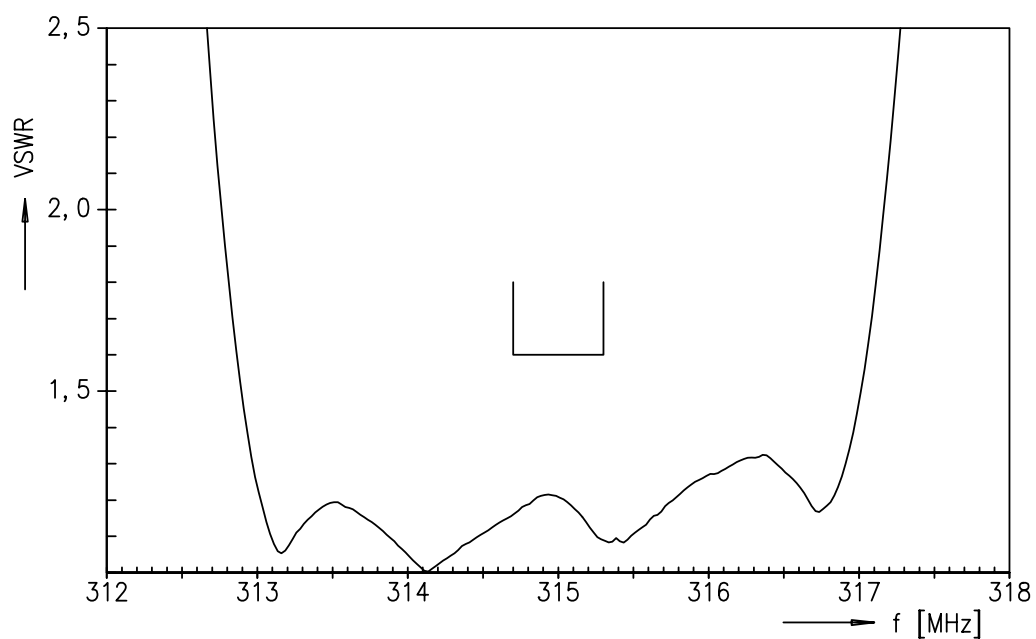
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Input VSWR



Output VSWR





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