



SAW Components

Data Sheet B3712

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a blue glow and are positioned diagonally across the frame. The background is dark and textured, with a faint globe and circuitry patterns visible. The overall effect is high-tech and futuristic.



SAW Components

B3712

Low Loss Filter

312,20 MHz

Data Sheet

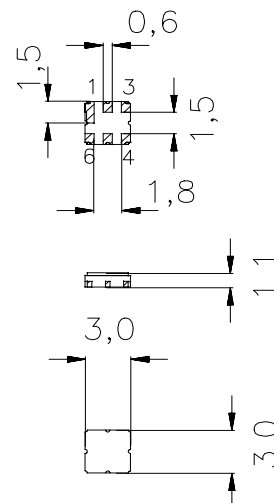
Features

- 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

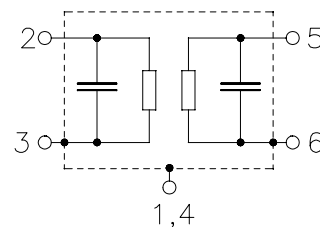
Ceramic package DCC6C



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
B3712	B39311-B3712-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	—	312,20	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$				
311,90 ... 312,50 MHz		—	1,8	2,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
311,90 ... 312,50 MHz		—	0,5	1,3	dB
Relative attenuation (relative to $\alpha_{\max}$)	α_{rel}				
270,00 ... 286,00 MHz		55	60	—	dB
290,20 ... 291,10 MHz		53	58	—	dB
301,20 ... 301,80 MHz		48	53	—	dB
322,60 ... 323,20 MHz		24	31	—	dB
333,30 ... 334,20 MHz		36	41	—	dB
354,70 ... 355,90 MHz		50	55	—	dB
Temperature coefficient of frequency	TC_f	—	-30	—	ppm/K



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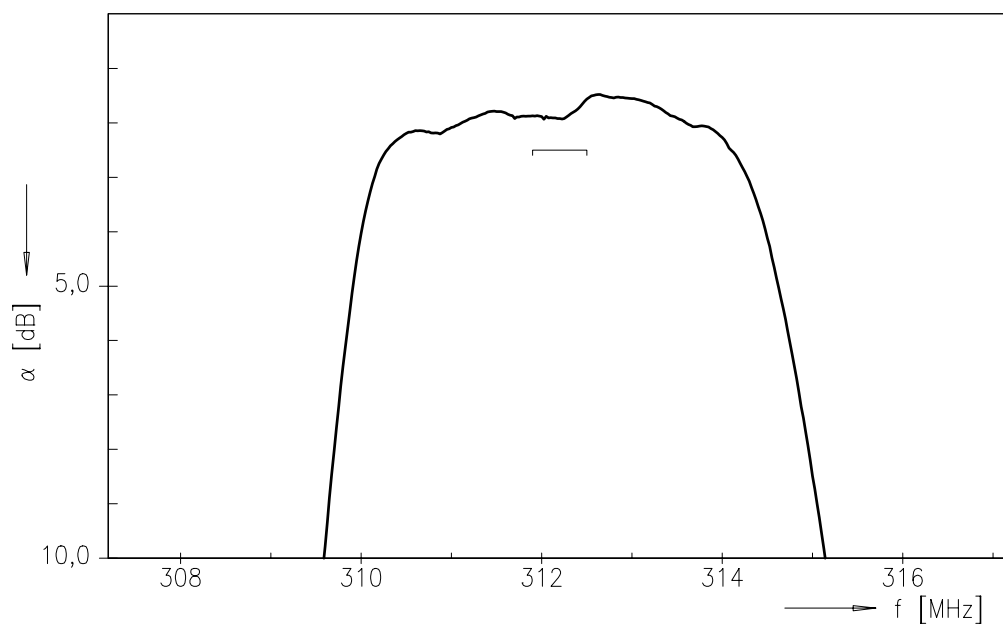
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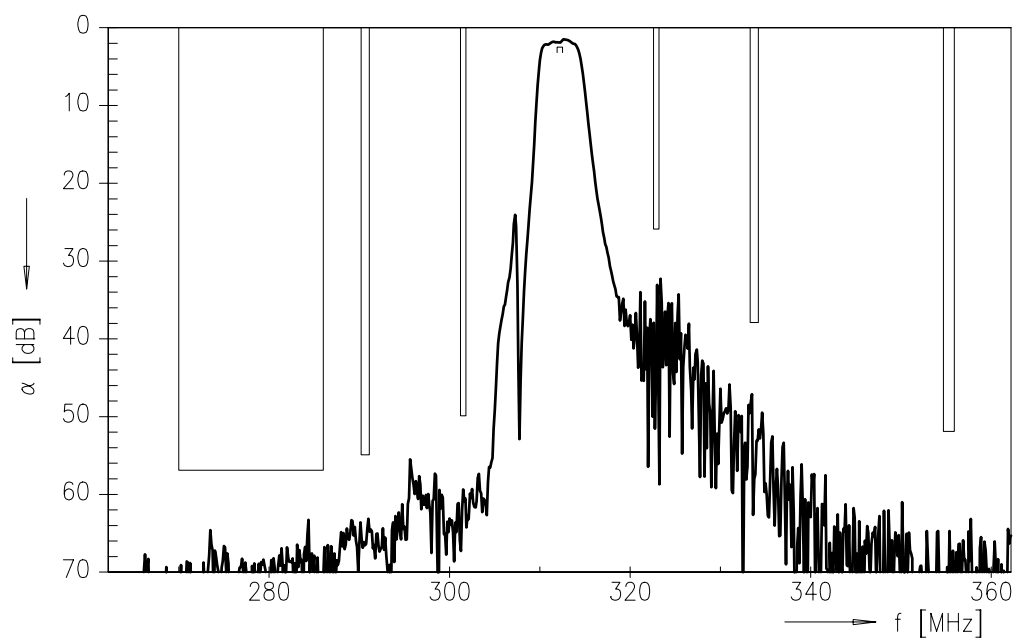
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Transfer function



Transfer function (wideband)





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This brochure replaces the previous edition.

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