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EPCOS (TDK)
B39871B3715U410

For any questions, you can email us directly:
sales@integrated-circuit.com

EPCOS

SAW Components

Data Sheet B3715

EPCOS

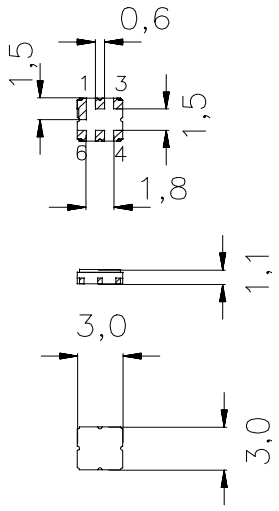
SAW Components	B3715
Low Loss Filter	**869,0 MHz**

Data Sheet

Ceramic package **DCC6C**

Features

- RF low-loss filter for remote control receivers
- Package for **S**urface **M**ounted **T**echnology (**SMT**)
- Hermetically sealed ceramic package
- No matching network required for operation at 50 Ω
- Passivation layer: Elpas
- AEC-Q200 qualified component family



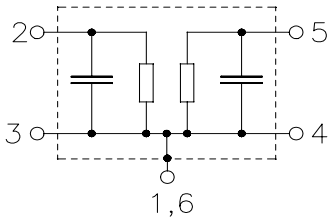
Dimensions in mm, approx. weight 0,1 g

Terminals

- Ni, gold plated

Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing according to
B3715	B39871-B3715-U410	C61157-A7-A67	F61074-V8168-Z000

Electrostatic **S**ensitive **D**evice (**ESD**)

Maximum ratings

Operable temperature range	T_A	–40/+85	˚C	
Storage temperature range	T_{stg}	–40/+85	˚C	
DC voltage	V_{DC}	0	V	
Source power	P_S	13	dBm	within passband (source 50 Ω)

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Characteristics

Reference temperature: T_A = 25 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Center frequency	f_c	—	869,0	—	MHz
Maximum insertion attenuation					
868,00 ... 870,00 MHz	α_{max}	—	2,4	3,1	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
868,00 ... 870,00 MHz		—	0,6	1,2	dB
Attenuation	α				
10,00 ... 845,00 MHz		37	41	—	dB
845,00 ... 851,00 MHz		32	36	—	dB
851,00 ... 858,00 MHz		20	24	—	dB
883,00 ... 892,00 MHz		35	40	—	dB
892,00 ... 1000,00 MHz		42	47	—	dB
Temperature coefficient of frequency	TC_f	—	-30	—	ppm/K

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Characteristics

Reference temperature: T_A = -40 ... +85 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Center frequency	f_c	—	869,0	—	MHz
Maximum insertion attenuation					
868,00 ... 870,00 MHz	α_{max}	—	2,6	3,3	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
868,00 ... 870,00 MHz		—	0,6	1,2	dB
Attenuation	α				
10,00 ... 845,00 MHz		37	41	—	dB
845,00 ... 851,00 MHz		32	36	—	dB
851,00 ... 856,80 MHz		20	24	—	dB
883,00 ... 892,00 MHz		20	35	—	dB
892,00 ... 1000,00 MHz		42	47	—	dB
Temperature coefficient of frequency	TC_f	—	-30	—	ppm/K

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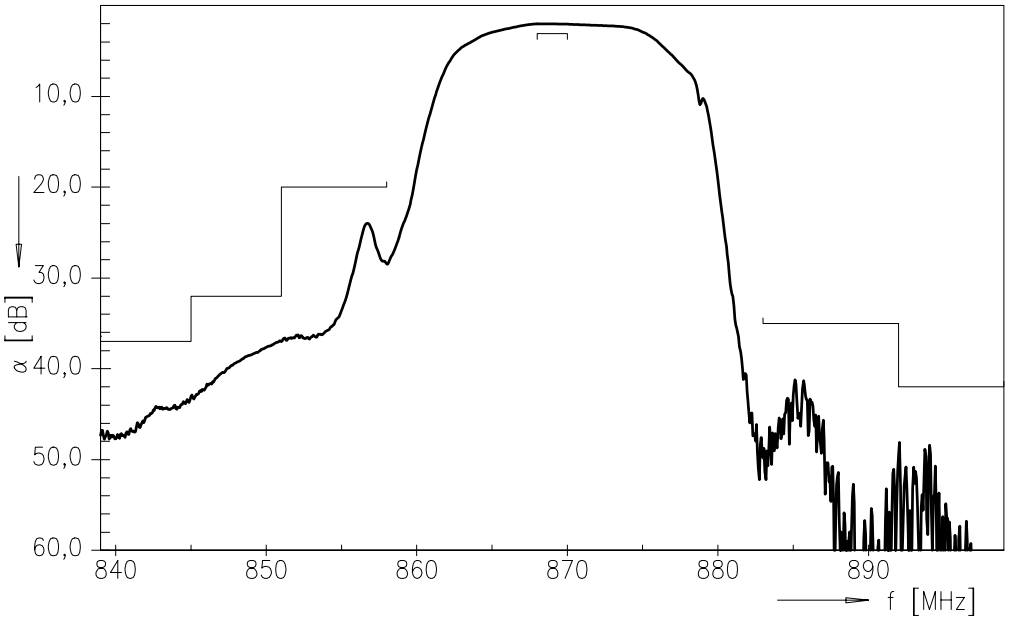
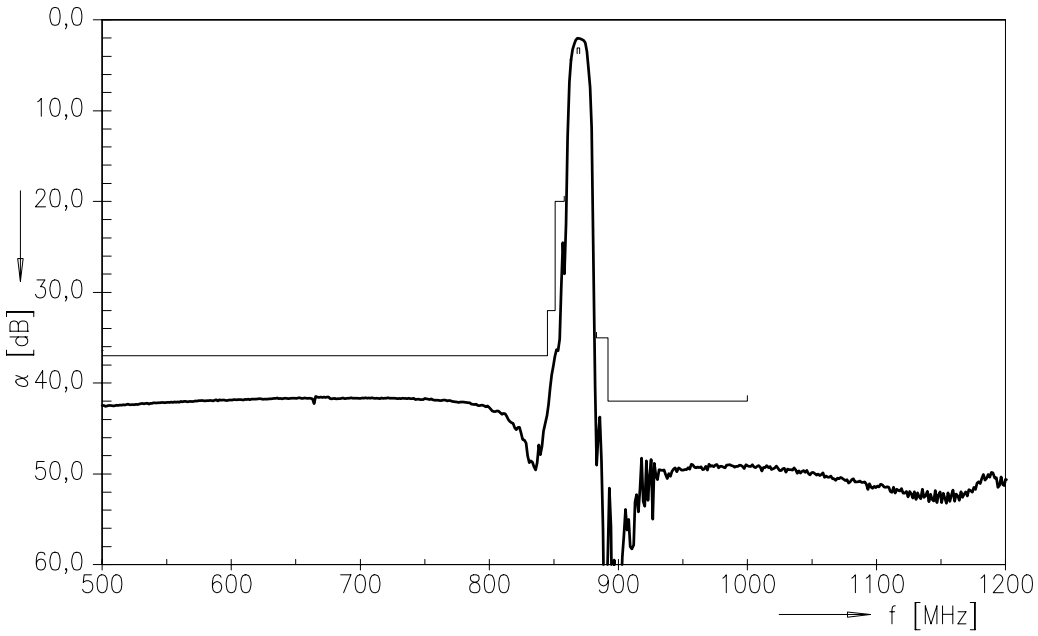
Data Sheet

Transfer function



Transfer function (wideband)



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Data Sheet

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This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.