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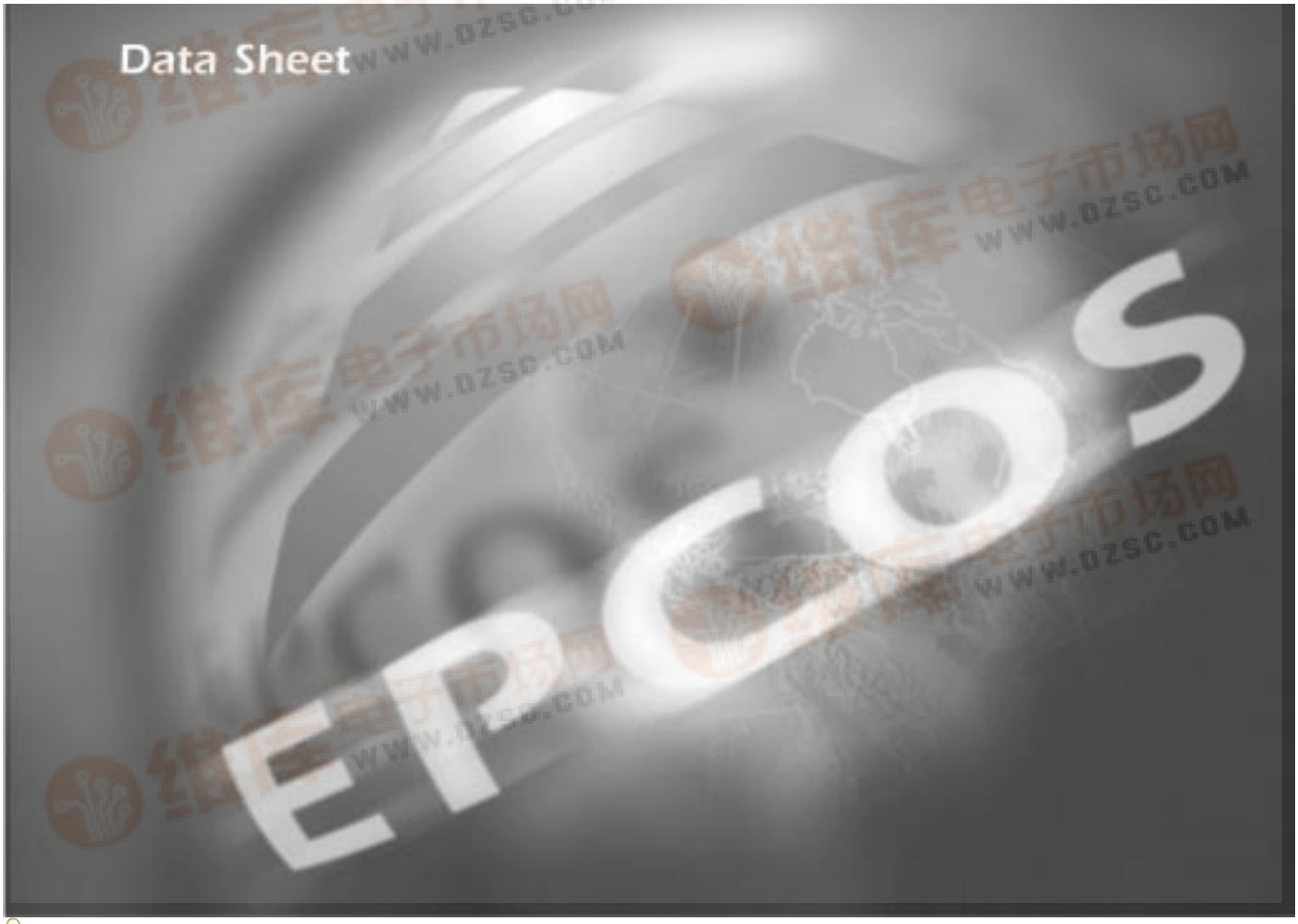
EPCOS

SAW Components

Data Sheet B3663



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Data Sheet

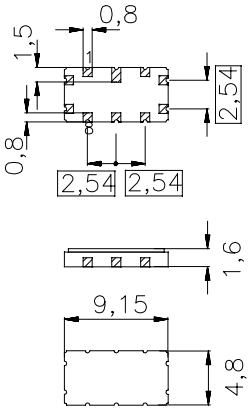
Ceramic SMD package QCC10B

Features

- Low-loss IF filter
- Ceramic SMD package
- Balanced or unbalanced operation possible
- Low insertion attenuation, high selectivity

Terminals

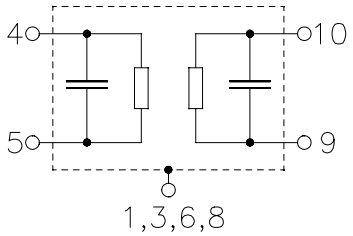
- Gold-plated



Dimensions in mm, approx. weight 0,23 g

Pin configuration

4, 5	Input
9,10	Output
1,3,6,8	Case ground
2,7	To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B3663	B39141-B3663-Z710	C61157-A7-A49	F61064-V8035-Z000

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

Maximum ratings

Operable temperature range	T	– 30/+ 80	˚C
Storage temperature range	T_{stg}	– 40/+ 85	˚C
DC voltage	V_{DC}	0	V
Source power	P_s	10	dBm

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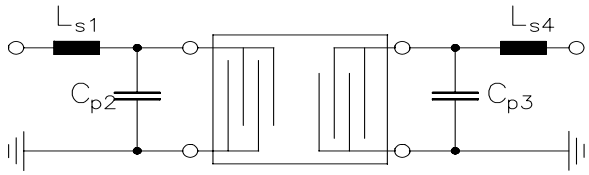
Characteristics

Operating temperature range: T = -10 ... +80 °C
Terminating source impedance: Z_S = 50 Ω unbalanced and matching network
Terminating load impedance: Z_L = 50 Ω unbalanced and matching network

		min.	typ.	max.	
Nominal frequency	f_N	—	140,010	—	MHz
Minimum insertion loss	α_{min}	—	3,7	5,5	dB
3dB bandwidth		30	73	—	kHz
Amplitude variation (p-p)	$\Delta\alpha$				
f_N - 15 kHz ... f_N + 15 kHz		—	0,3	3,0	dB
Amplitude ripple (peak to adjacent valley)	$\Delta\alpha$				
f_N - 15 kHz ... f_N + 15 kHz		—	0,0	0,5	dB
Absolute group delay (at f_N)	τ	—	11	15	µs
Group delay ripple (p-p)	$\Delta\tau$				
f_N - 15 kHz ... f_N + 15 kHz		—	2	6	µs
Relative attenuation (relative to α_{min})	α_{rel}				
f_N ± 60 kHz		4	20	—	dB
f_N ± 120 kHz		25	45	—	dB
f_N ± 210 kHz		45	67	—	dB
f_N – 1 MHz		68	73	—	dB
f_N + 1 MHz		48	68	—	dB
Temperature coefficient of frequency [1]	TC_f	—	– 0,036	—	ppm/K²
Turnover temperature	T_0	—	35	—	°C

[1] Temperature dependance of f_c: $f_c(T) = f_c(T_0)(1 + TC_f(T - T_0)^2)$

Matching network (element values depend on pcb layout, optimized for test board)



L_{s1} = 180 nH C_{p2} = 3,3 pF C_{p3} = 2,7 pF L_{s4} = 180 nH

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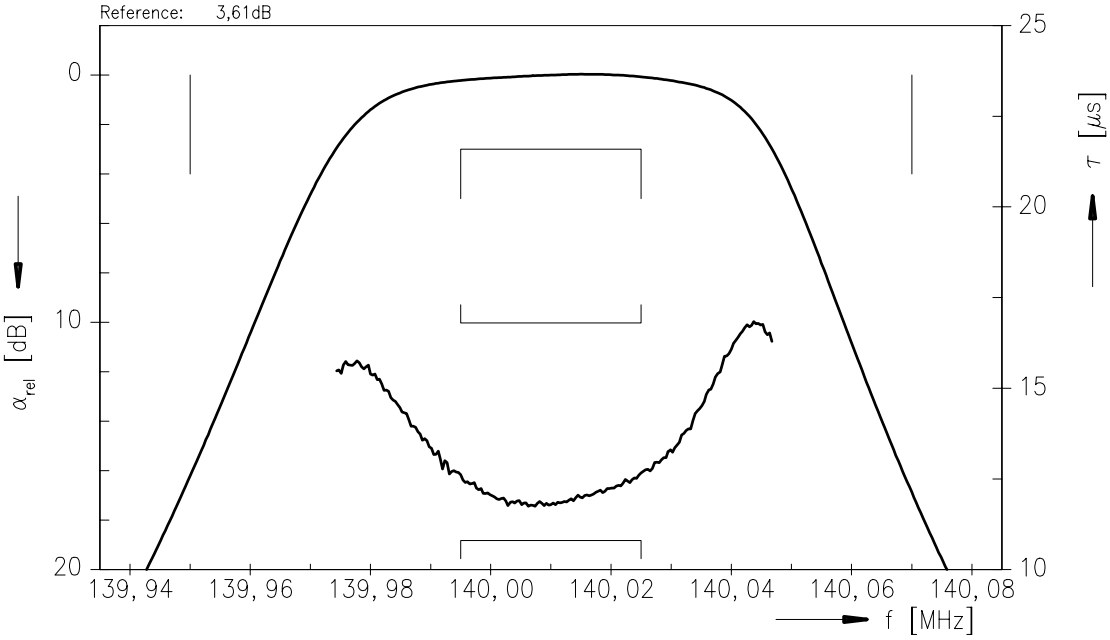
Frequency response



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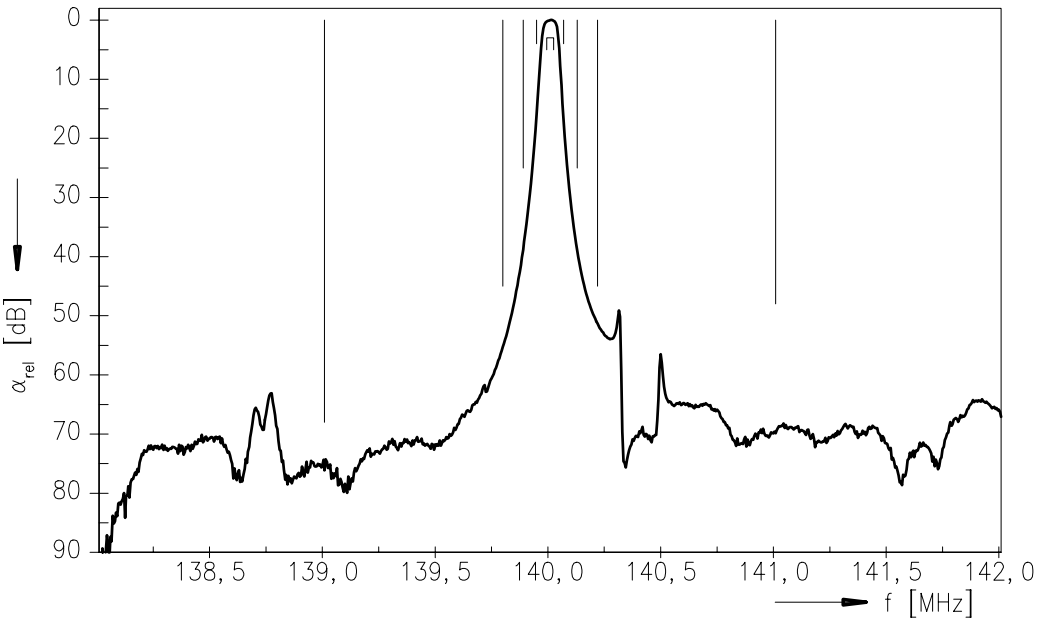

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Minimum insertion loss	α_{min}	—	3,7	5,5	dB
3dB bandwidth		30	78	—	kHz
Amplitude variation (p-p)	$\Delta\alpha$				
f_N - 15 kHz ... f_N + 15 kHz		—	0,3	3,0	dB
Amplitude ripple (peak to adjacent valley)	$\Delta\alpha$				
f_N - 15 kHz ... f_N + 15 kHz		—	0,2	0,8	dB
Absolute group delay (at f_N)	τ	—	11	15	µs
Group delay ripple (p-p)	$\Delta\tau$				
f_N - 15 kHz ... f_N + 15 kHz		—	2	8	µs
Relative attenuation (relative to α_{min})	α_{rel}				
f_N ± 60 kHz		2	20	—	dB
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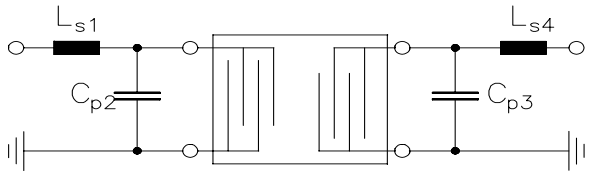

L_{s1} = 200 nH C_{p2} = 3,3 pF C_{p3} = 3,3 pF L_{s4} = 200 nH

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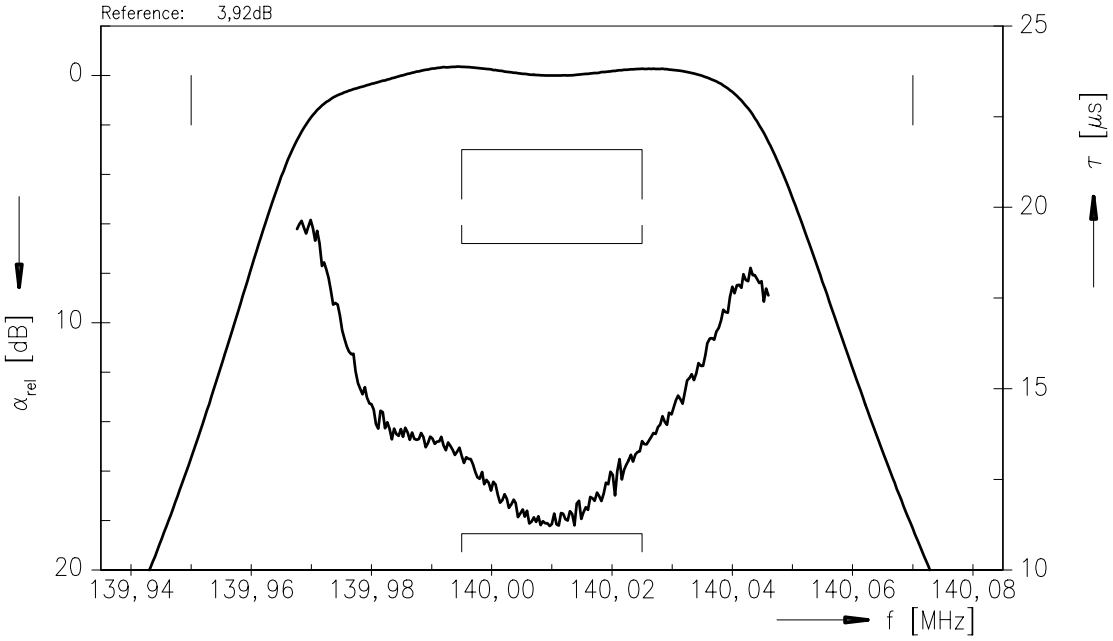
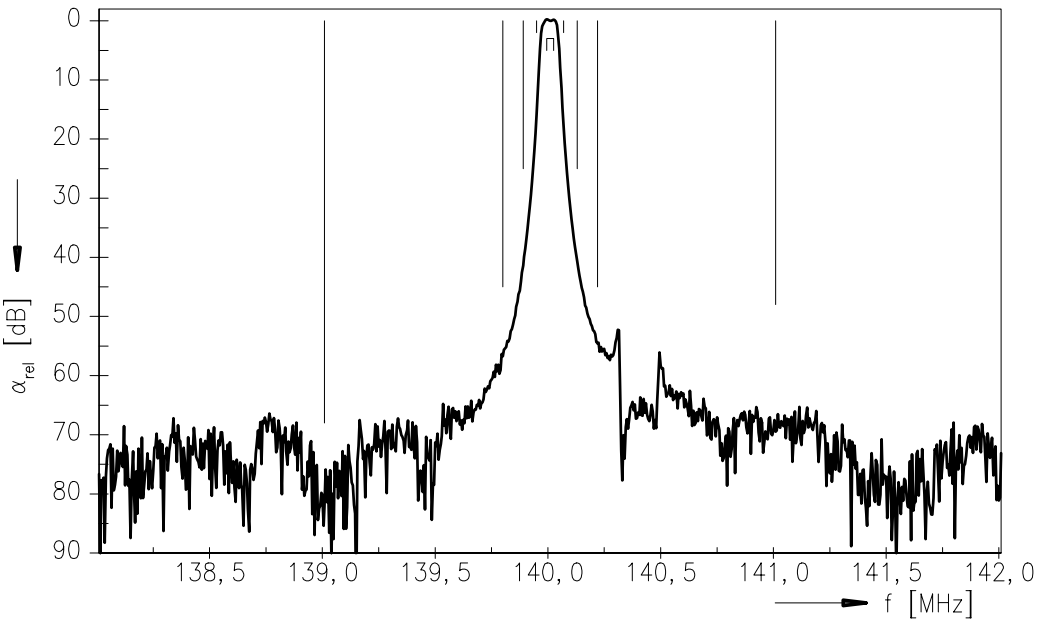
Frequency response



Frequency response



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