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EPCOS (TDK)
B39440X7303P200

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EPCOS

SAW Components

Data Sheet

EPCOS

SAW Components	X 7303 P
Bandpass Filter	**44,00 MHz**

Data Sheet SMD

Standard

- HDTV

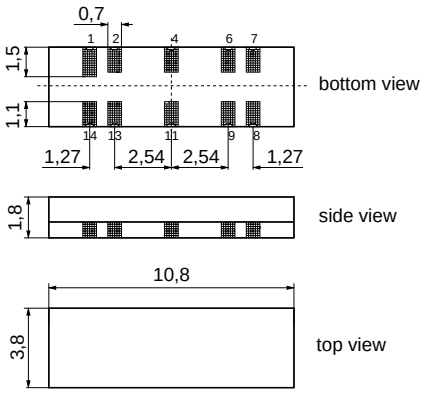
Features

- Constant group delay
- Optimized for cascade of two devices
- Unbalanced input option
- **S**urface **M**ounted **T**echnology (**SMT**)

Terminals

- Gold plated

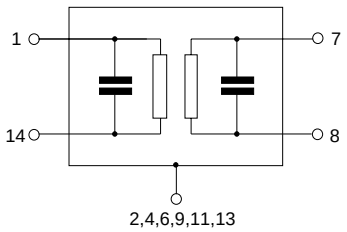
Polymer package **DOC14A**



Dimensions in mm, approx. weight 0,14 g

Pin configuration

1	Input
14	Input
4,9,11,13	Case – ground
2,6	Ground
7	Output
8	Output



Type	Ordering code	Marking and package according to	Packing according to
X 7303 P	B39440-X7303-P200	C61157-A5-A1	F61074-V8188-Z000

Maximum ratings

Operable temperature range	T_A	–25/+65	°C	
Storage temperature range	T_{stg}	–40/+85	°C	
DC voltage	V_{DC}	0	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals

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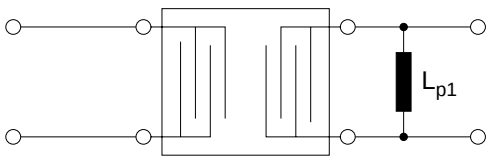
Characteristics

Reference temperature: T_A = 25 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 2 kΩ || 3 pF and matching network

				min.	typ.	max.	
Insertion attenuation			α				
Reference level for the following data		44,00 MHz		18,0	19,5	21,0	dB
Amplitude ripple (p-p)			Δα				
	41,60 ...	46,40 MHz		—	1,0	—	dB
Relative attenuation			$α_{rel}$				
		40,75 MHz		22,0	28,0	—	dB
		41,35 MHz		0,9	1,9	2,9	dB
		41,60 MHz		–0,7	0,3	1,3	dB
		46,40 MHz		–1,0	0,0	1,0	dB
		46,65 MHz		0,9	1,9	2,9	dB
		47,25 MHz		22,0	29,0	—	dB
Lower sidelobe	35,00 ...	39,50 MHz		28,0	34,0	—	dB
	39,50 ...	40,20 MHz		29,0	35,0	—	dB
Upper sidelobe	47,65 ...	48,50 MHz		24,0	29,0	—	dB
	48,50 ...	55,00 MHz		29,0	35,0	—	dB
Reflected wave signal suppression							
1,5 µs ... 6,0 µs after main pulse (test pulse 250 ns, carrier frequency 44,00 MHz)				42,0	54,0	—	dB
Group delay ripple (p-p)			Δτ				
	41,35 ...	46,65 MHz		—	70	—	ns
Impedance at 44,00 MHz							
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				—	3,6 || 14,7	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$				—	8,8 || 4,3	—	kΩ || pF
Temperature coefficient of frequency			TC_f	—	–18	—	ppm/K

Matching network:



L_{p1} = 1800 nH

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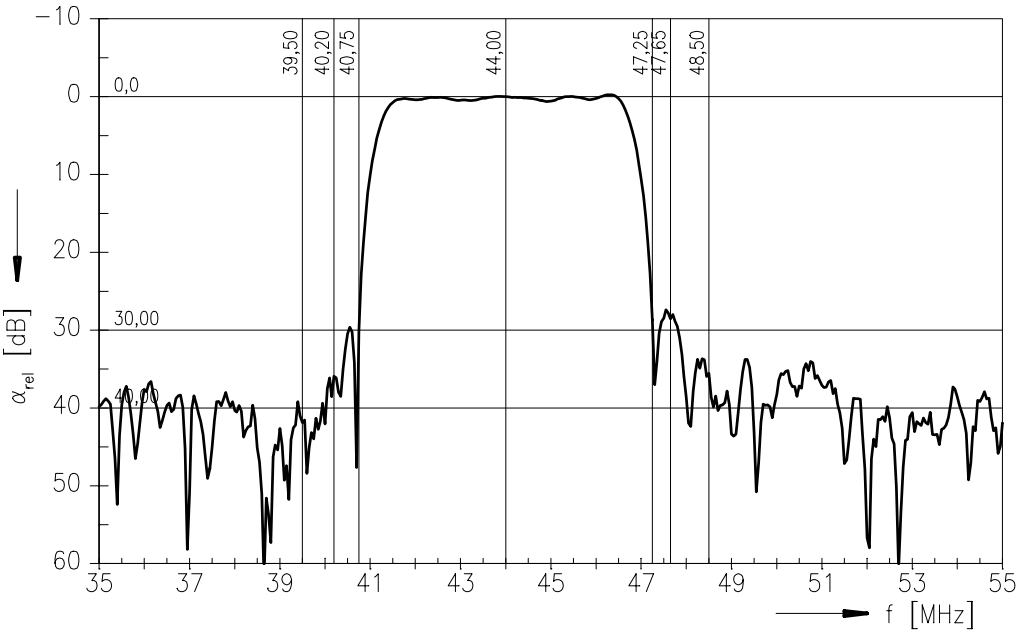
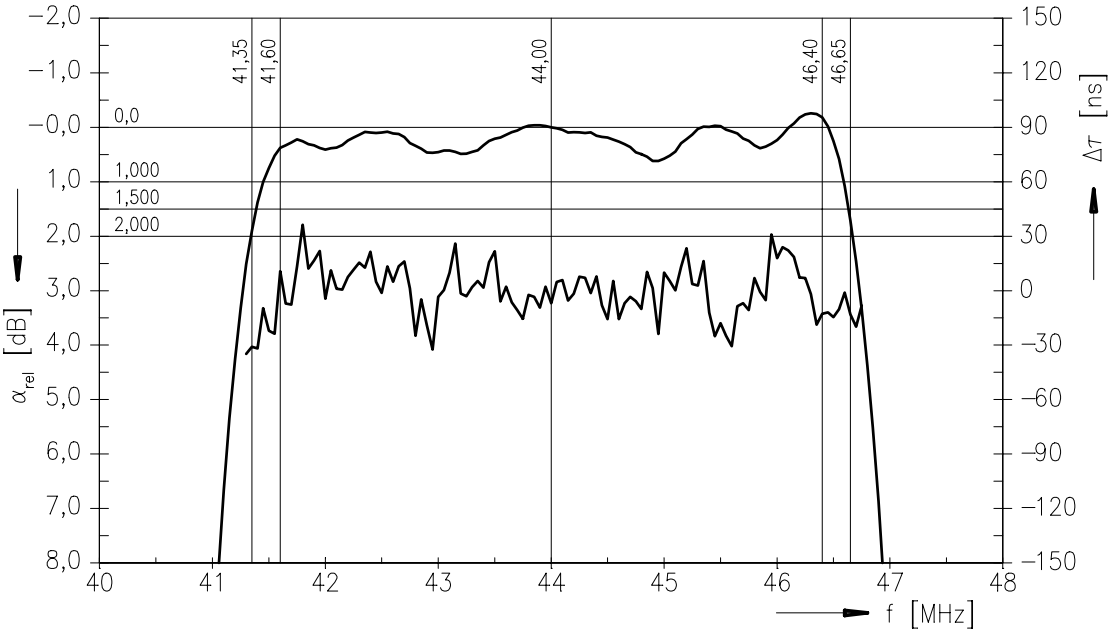
Data Sheet SMD

Frequency response





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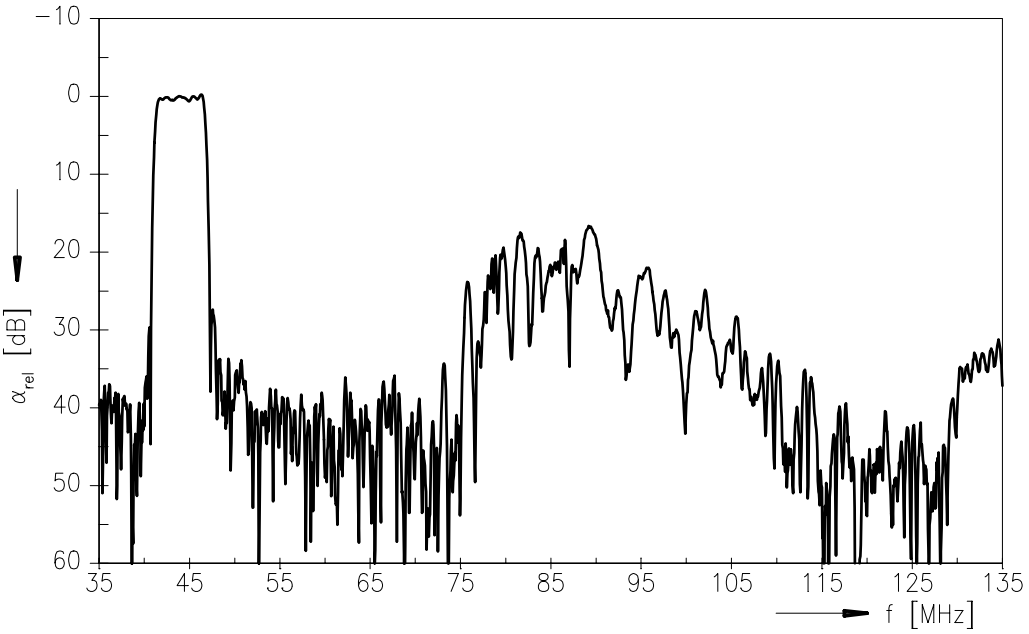
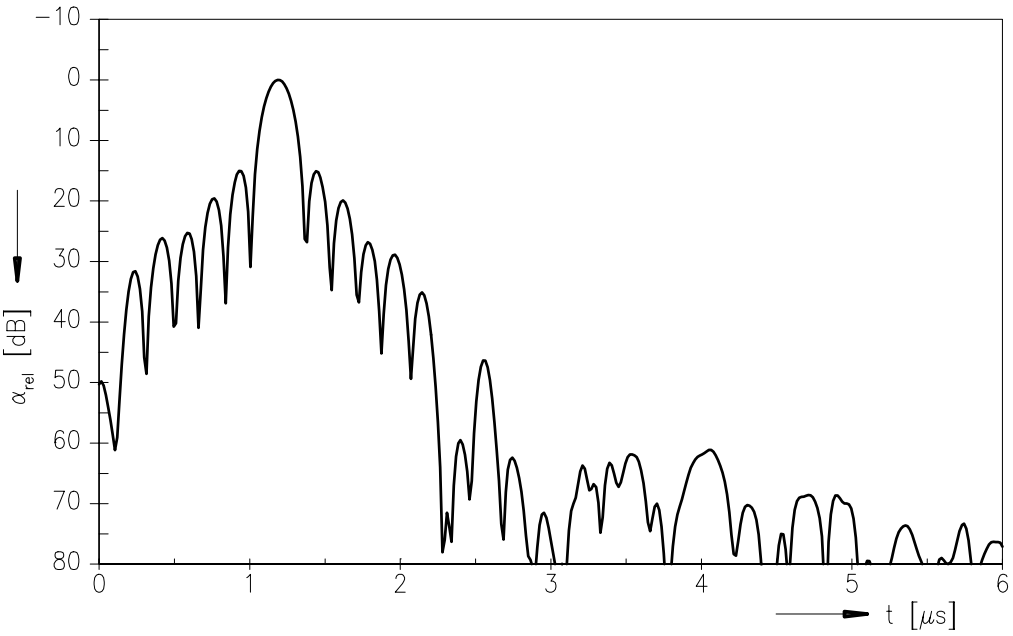
Data Sheet SMD

Frequency response



Time domain response



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Bandpass Filter	**44,00 MHz**
Data Sheet	SMD

Published by EPCOS AG
Surface Acoustic Wave Components Division, SAW CE MM PD
P.O. Box 80 17 09, D-81617 München

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