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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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# *SAW Components*

*Data Sheet X 7351 P*

Data Sheet

A large, stylized, 3D-rendered graphic of the EPCOS logo. The letters "EPCOS" are rendered in a white, glowing, sans-serif font, appearing to be part of a larger, curved structure that resembles the company's logo symbol. The background is dark and textured, with a faint map of the world visible.



**SAW Components**

**X 7351 P**

**Bandpass Filter**

**44,00 MHz**

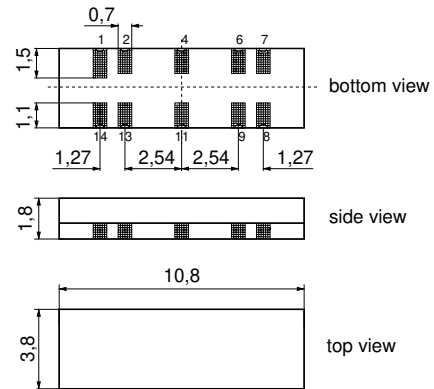
Data Sheet



Polymer package **DOC14A**

**Features**

- Constant group delay
- **Surface Mounted Technology (SMT)**
- Unbalanced input option



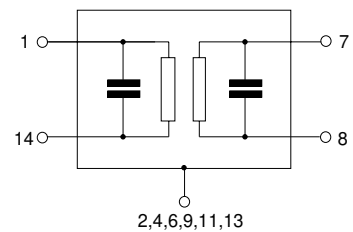
**Terminals**

- Gold plated

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 7351 P	B39440-X7351-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:  $T_A = 25 (45) \text{ }^\circ\text{C}$   
 Terminating source impedance:  $Z_S = 50 \text{ } \Omega$   
 Terminating load impedance:  $Z_L = 2\text{k}\Omega \parallel 3\text{pF}$

		min.	typ.	max.	
<b>Center frequency</b> (center between 10 dB points)	$f_C$	—	(44,00)	—	MHz
<b>Insertion attenuation</b> Reference level for the following data	$\alpha$	12,9	14,4	15,9	44,06 (44,00) MHz dB
<b>Pass bandwidth</b> $\alpha_{\text{rel}} \leq 3 \text{ dB}$	$B_{3\text{dB}}$	—	6,0	—	MHz
$\alpha_{\text{rel}} \leq 30 \text{ dB}$	$B_{30\text{dB}}$	—	7,7	—	MHz
<b>Amplitude ripple (p-p)</b> 41,53 ... 46,59MHz	$\Delta\alpha$	—	0,7	—	dB
<b>Relative attenuation</b>	$\alpha_{\text{rel}}$				
41,53 (41,47)MHz		—	0,2	—	dB
46,59 (46,53)MHz		—	0,4	—	dB
41,06 (41,00)MHz		1,9	2,9	3,9	dB
47,06 (47,00)MHz		1,8	2,8	3,8	dB
47,31 (47,25)MHz		—	6,0	—	dB
39,81 (39,75)MHz		36,0	42,0	—	dB
<b>Lower sidelobe</b>					
35,06 ... 38,56(35,00 ... 38,50)MHz		40,0	46,0	—	dB
38,56 ... 40,06(38,50 ... 40,00)MHz		35,0	40,0	—	dB
<b>Upper sidelobe</b>					
48,06 ... 50,06(48,00 ... 50,00)MHz		34,0	39,0	—	dB
50,06 ... 55,06(50,00 ... 55,00)MHz		40,0	44,0	—	dB
<b>Reflected wave signal suppression</b> 1,2 $\mu\text{s}$ ... 6,0 $\mu\text{s}$ after main pulse (test pulse 250 ns, carrier frequency 44,06 MHz)		42,0	50,0	—	dB
<b>Group delay ripple (p-p)</b> 41,53 ... 46,59MHz	$\Delta\tau$	—	50	—	ns
<b>Impedance at 44,06 MHz</b>					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	1,5 $\parallel$ 11,6	—	k $\Omega$ $\parallel$ pF
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	1,4 $\parallel$ 4,3	—	k $\Omega$ $\parallel$ pF
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-72	—	ppm/K



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X 7351 P

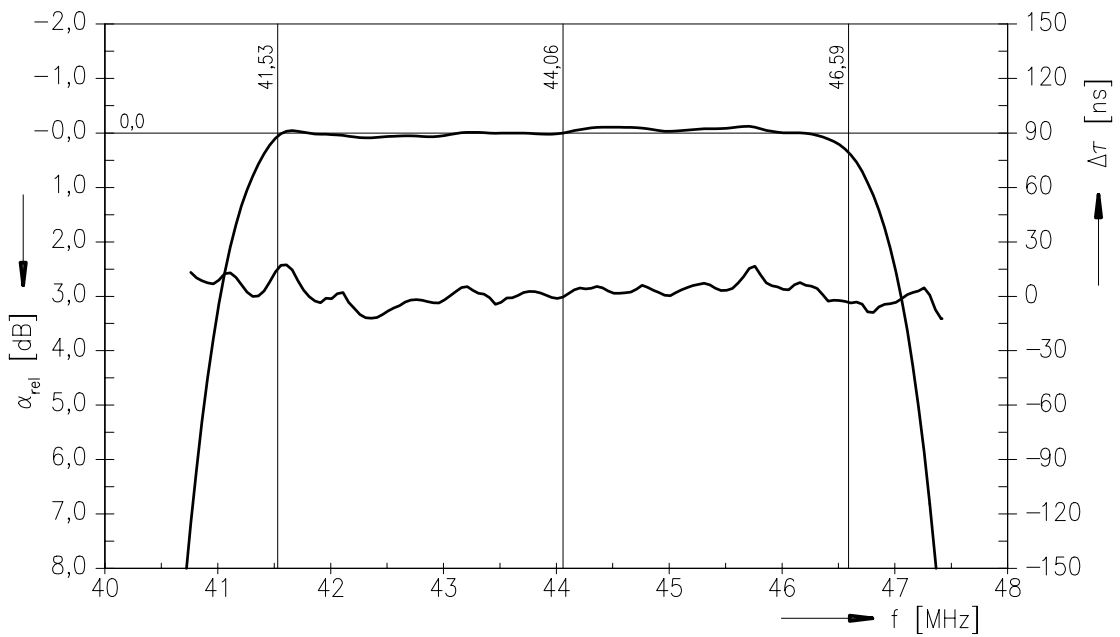
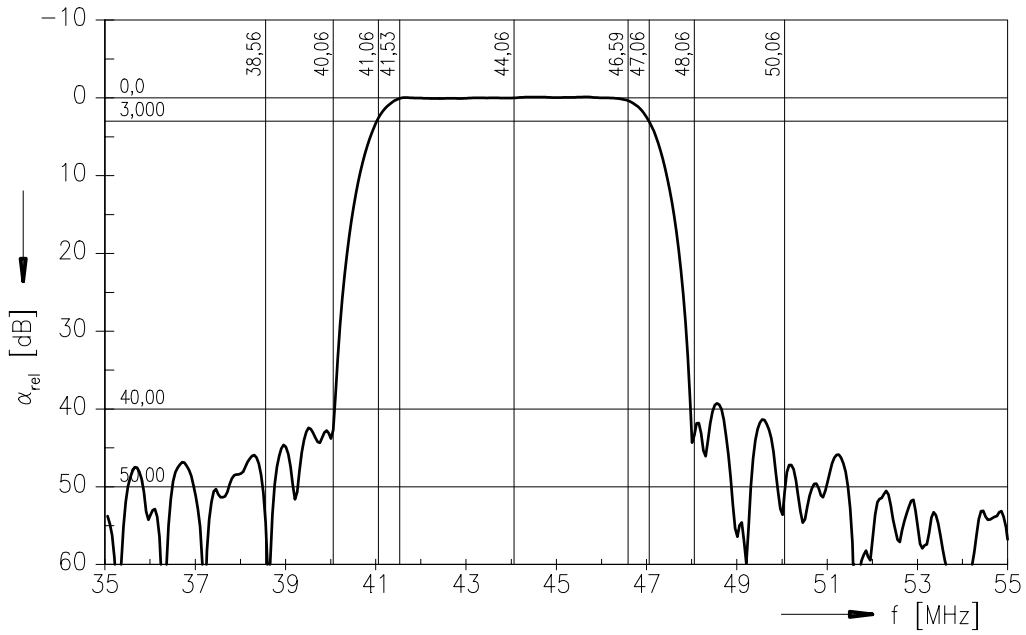
Bandpass Filter

44,00 MHz

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Frequency response





SAW Components

X 7351 P

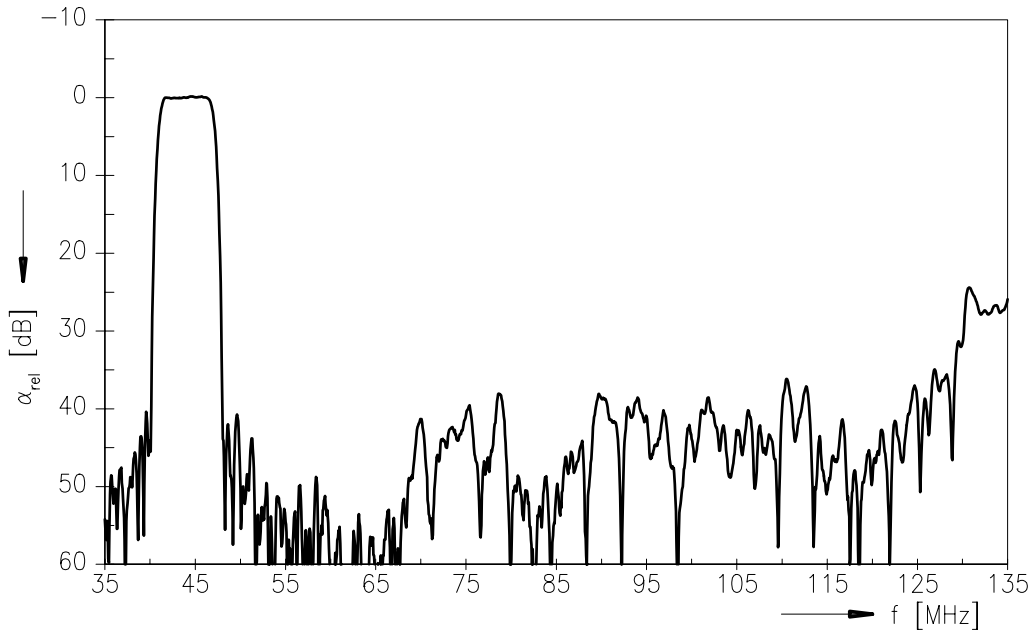
Bandpass Filter

44,00 MHz

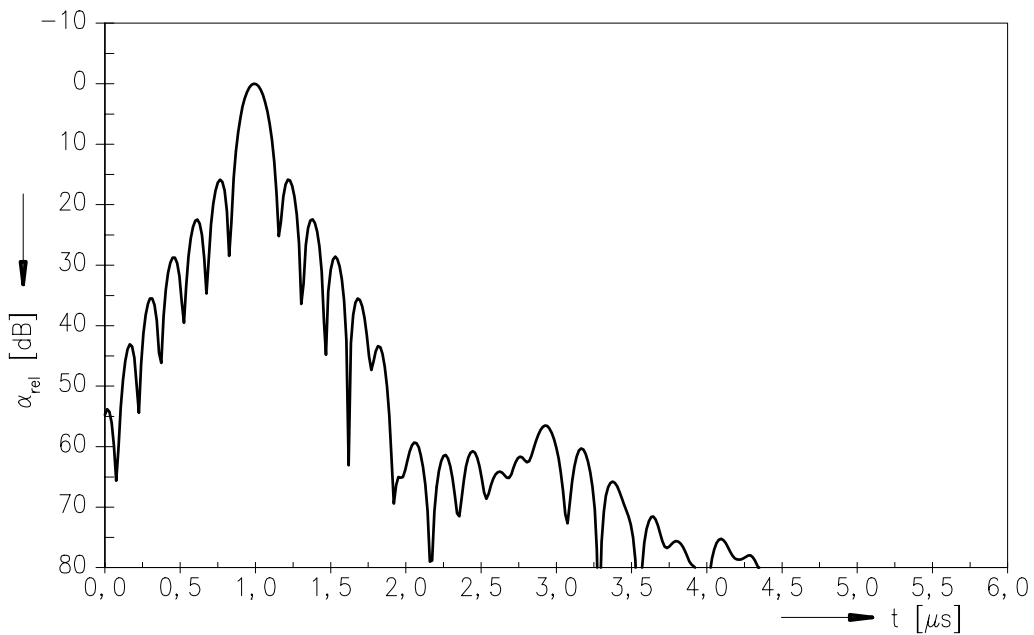
Data Sheet



### Frequency response



### Time domain response





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**44,00 MHz**

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