



SAW Components

Data Sheet X 7351 P

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a bright, circular highlight in the center of each, giving them a three-dimensional appearance. They are set against a dark, textured background. In the background, there is a faint, stylized globe and a wavy, metallic-looking shape that resembles a stylized wave or a piece of a circuit board.



SAW Components

X 7351 P

Bandpass Filter

44,00 MHz

Data Sheet



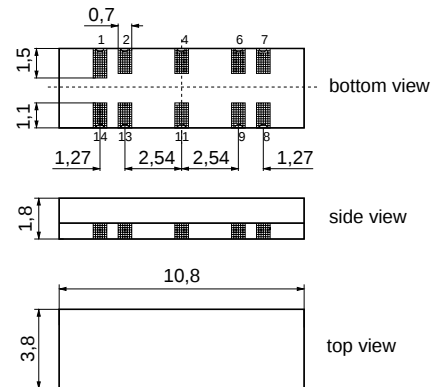
Polymer package **DOC14A**

Features

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

Terminals

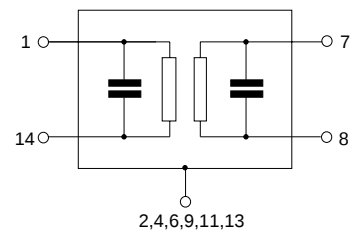
- Gold plated



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

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



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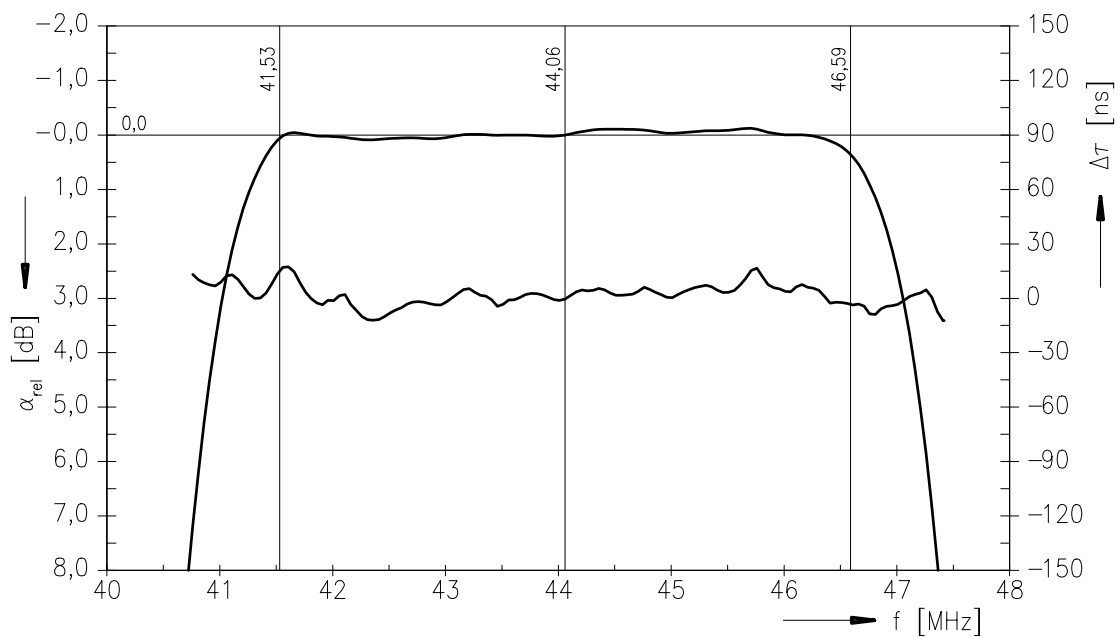
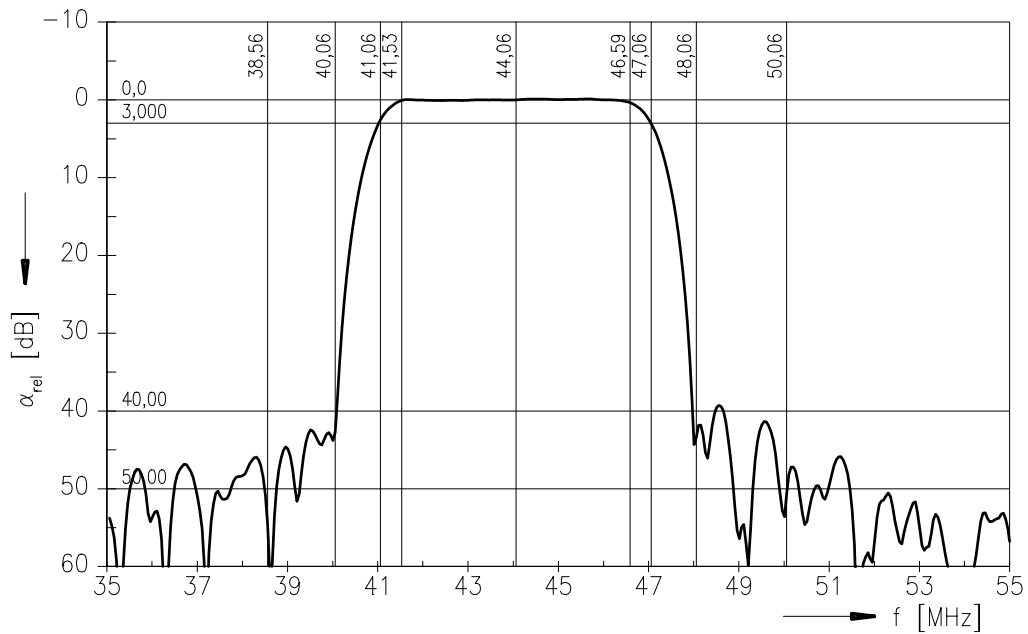
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Frequency response





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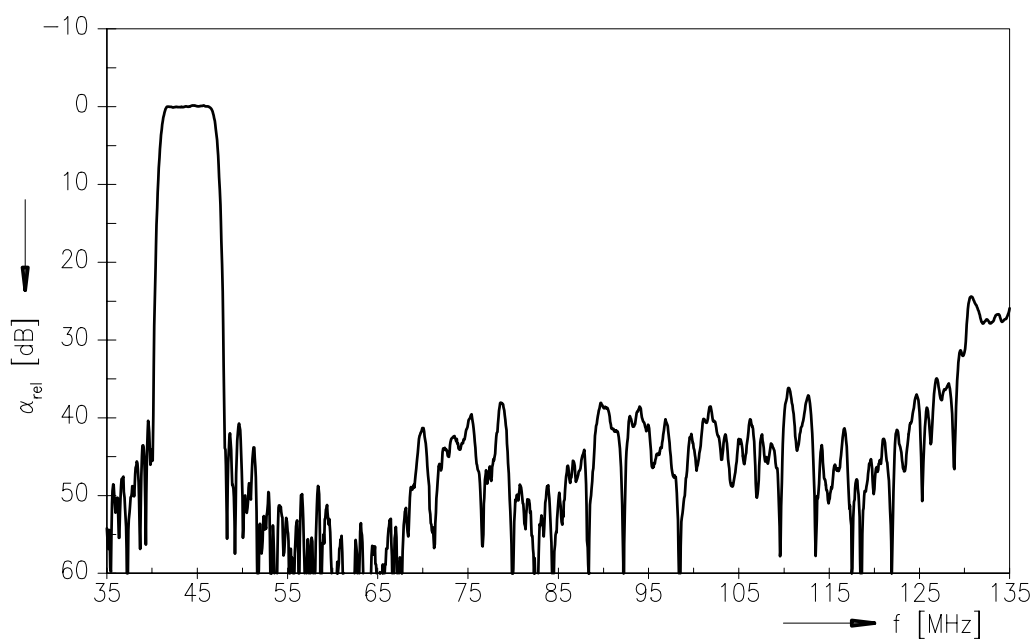
Bandpass Filter

44,00 MHz

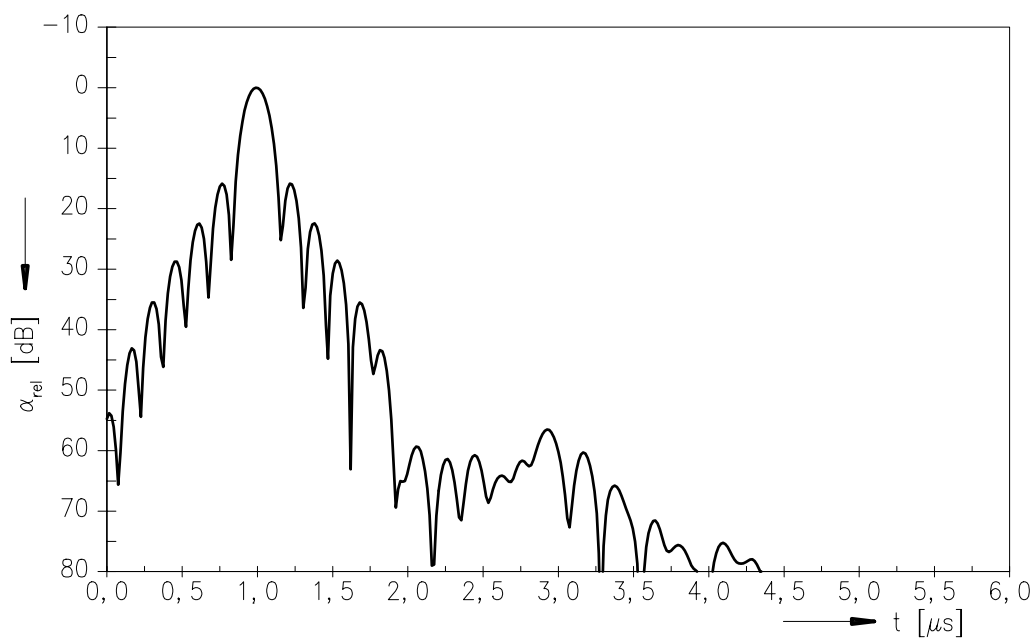
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Frequency response



Time domain response





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Data Sheet	SMD

Published by EPCOS AG

Surface Acoustic Wave Components Division, SAW CE MM PD

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