



SAW Components

Data Sheet X 7351 P

Data Sheet

A large, stylized graphic of a globe with the word "EPCOS" written across it in a large, white, sans-serif font. The globe is rendered in shades of gray and white, with the word "EPCOS" appearing to be superimposed on it. The background is dark.



SAW Components

X 7351 P

Bandpass Filter

44,00 MHz

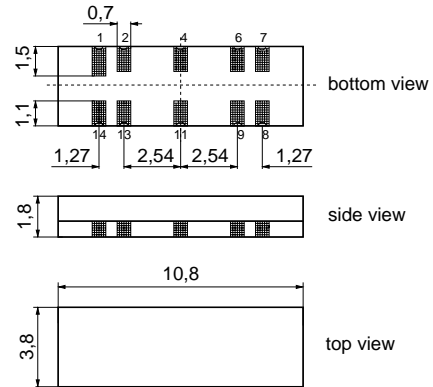
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Polymer package **DOC14A**

Features

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



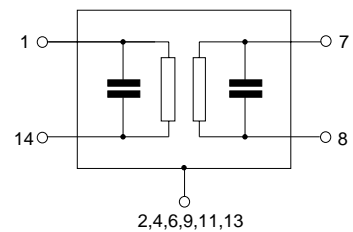
Terminals

- 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.	
Center frequency (center between 10 dB points)	f_C	—	(44,00)	—	MHz
Insertion attenuation Reference level for the following data	α 44,06 (44,00) MHz	12,9	14,4	15,9	dB
Pass bandwidth $\alpha_{rel} \leq 3 \text{ dB}$	$B_{3\text{dB}}$	—	6,0	—	MHz
$\alpha_{rel} \leq 30 \text{ dB}$	$B_{30\text{dB}}$	—	7,7	—	MHz
Amplitude ripple (p-p) 41,53 ... 46,59MHz	$\Delta\alpha$	—	0,7	—	dB
Relative attenuation 41,53 (41,47)MHz	α_{rel}	—	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) 41,53 ... 46,59MHz	$\Delta\tau$	—	50	—	ns
Impedance at 44,06 MHz Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	1,5 \parallel 11,6	—	k Ω \parallel pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	1,4 \parallel 4,3	—	k Ω \parallel pF
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K



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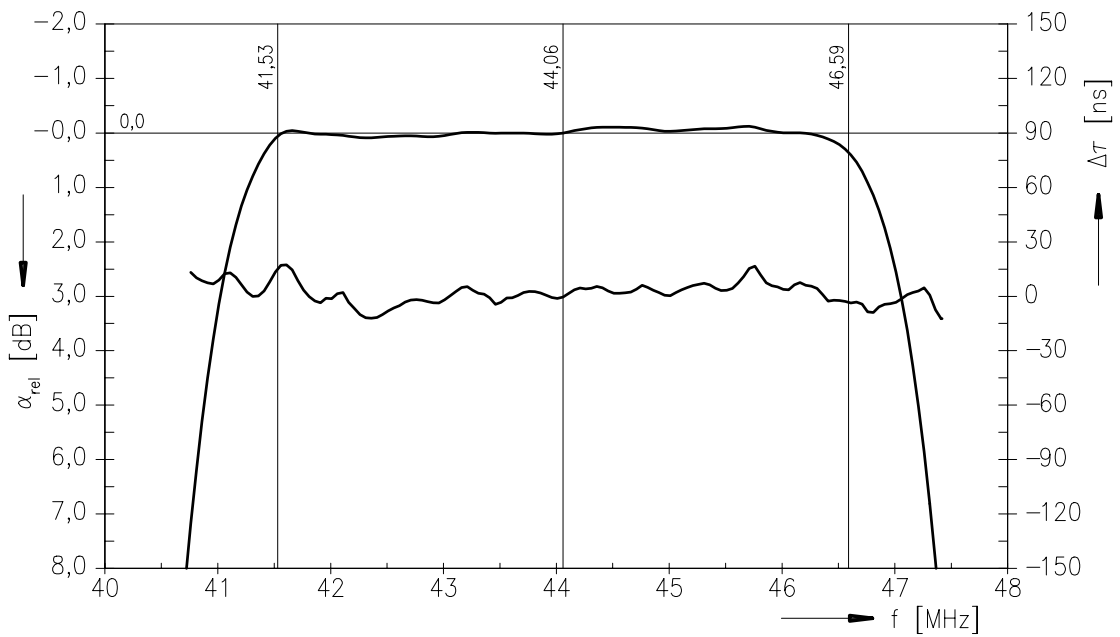
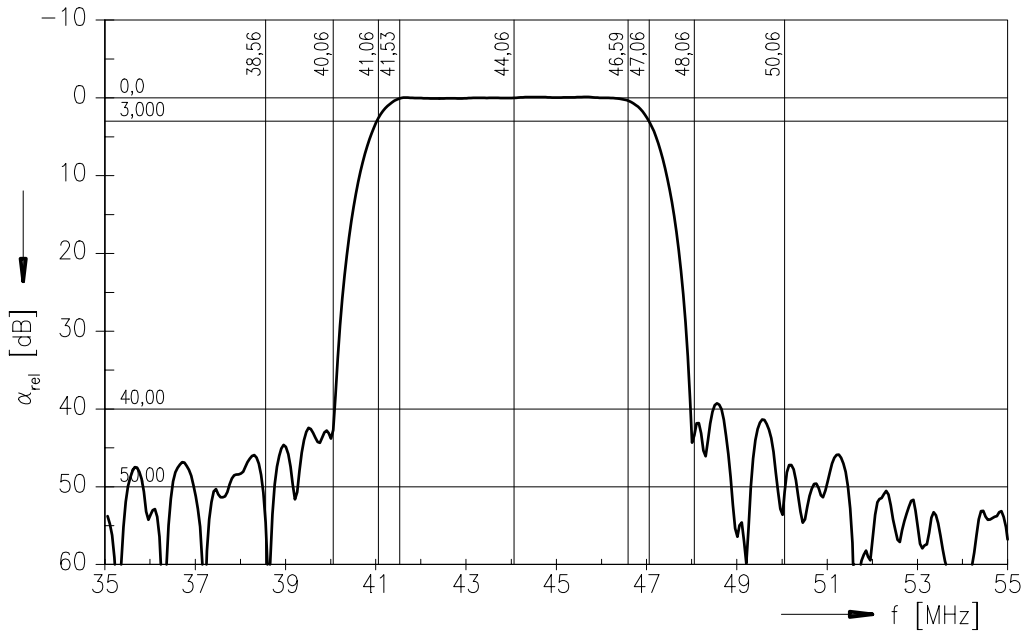
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Frequency response





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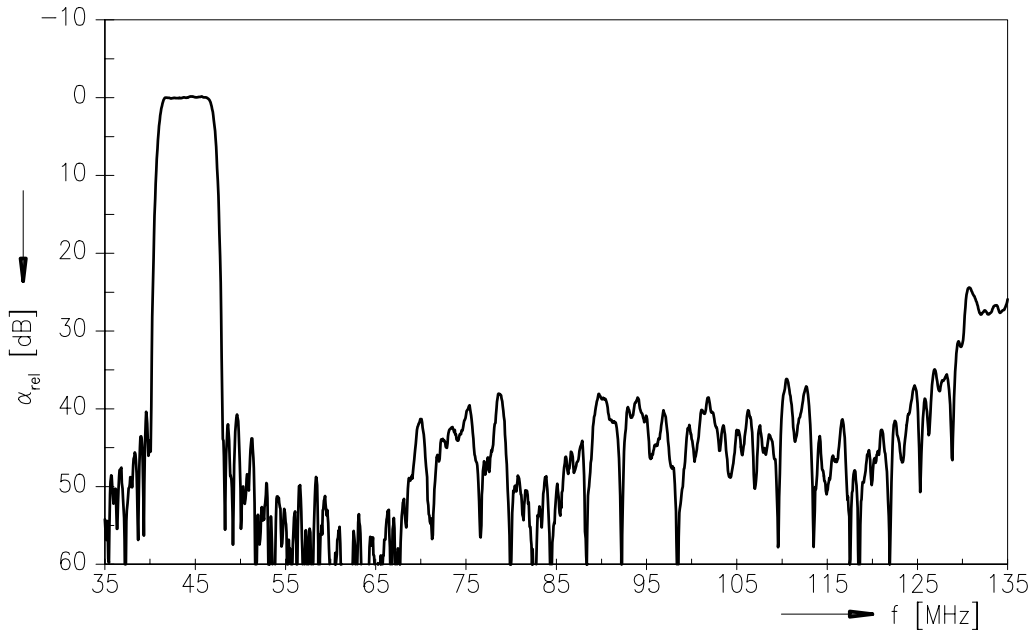
Bandpass Filter

44,00 MHz

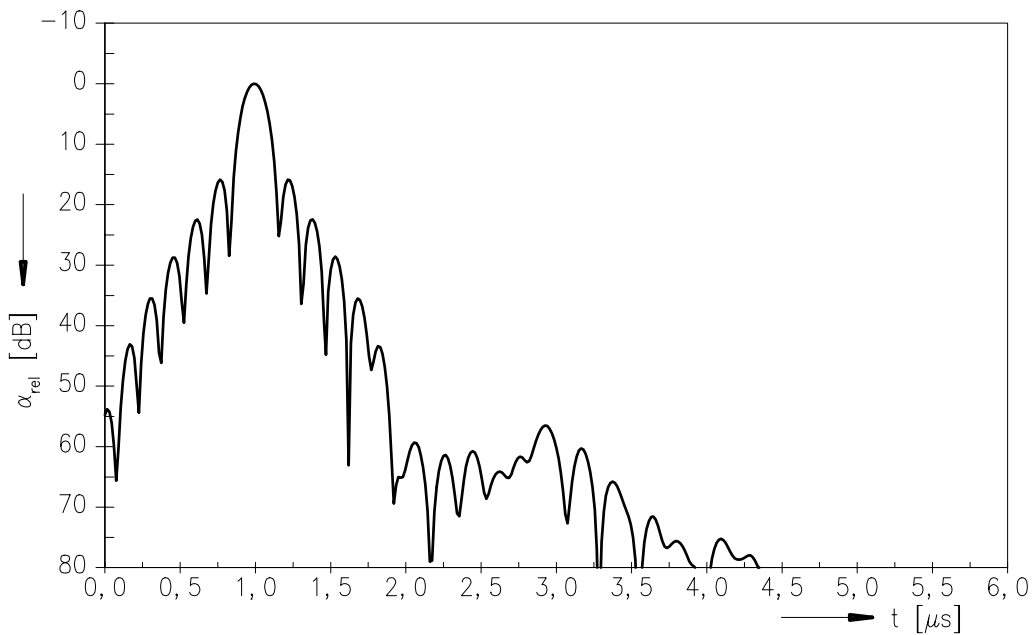
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Frequency response



Time domain response





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