EPCOS

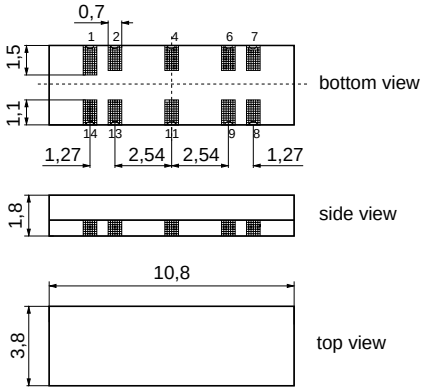
SAW Components

Data Sheet X 7351 P

Polymer package **DOC14A**

Features

- Constant group delay
- **S**urface **M**ounted **T**echnology (**SMT**)
- Unbalanced input option



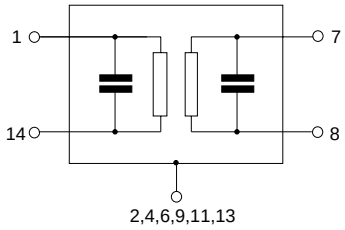
Terminals

- 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

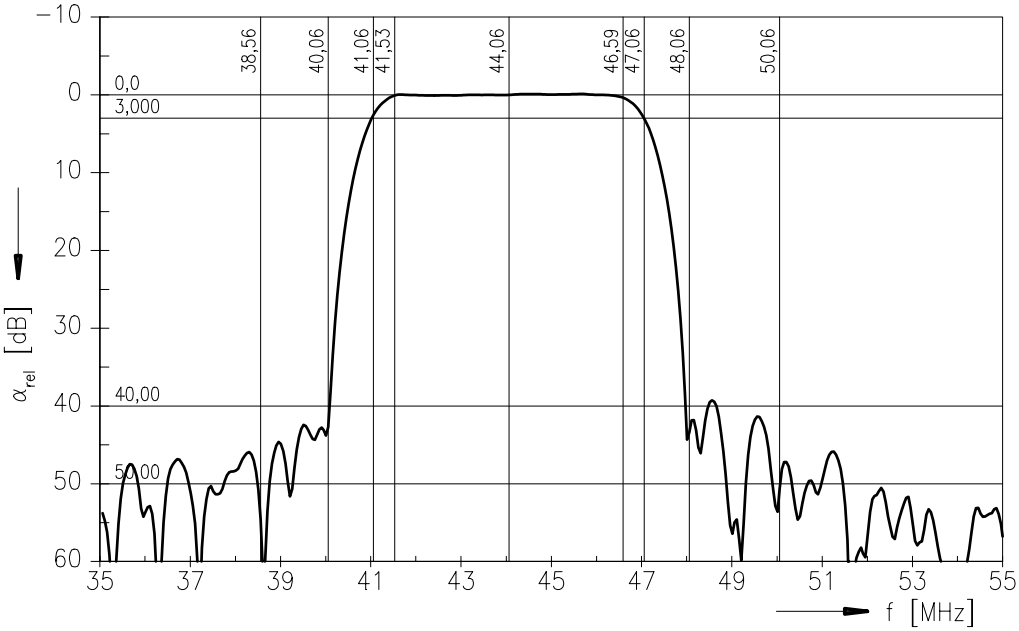
Operable temperature range	T_A	–25/+65	˚C	
Storage temperature range	T_{stg}	–40/+85	˚C	
DC voltage	V_{DC}	0	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals

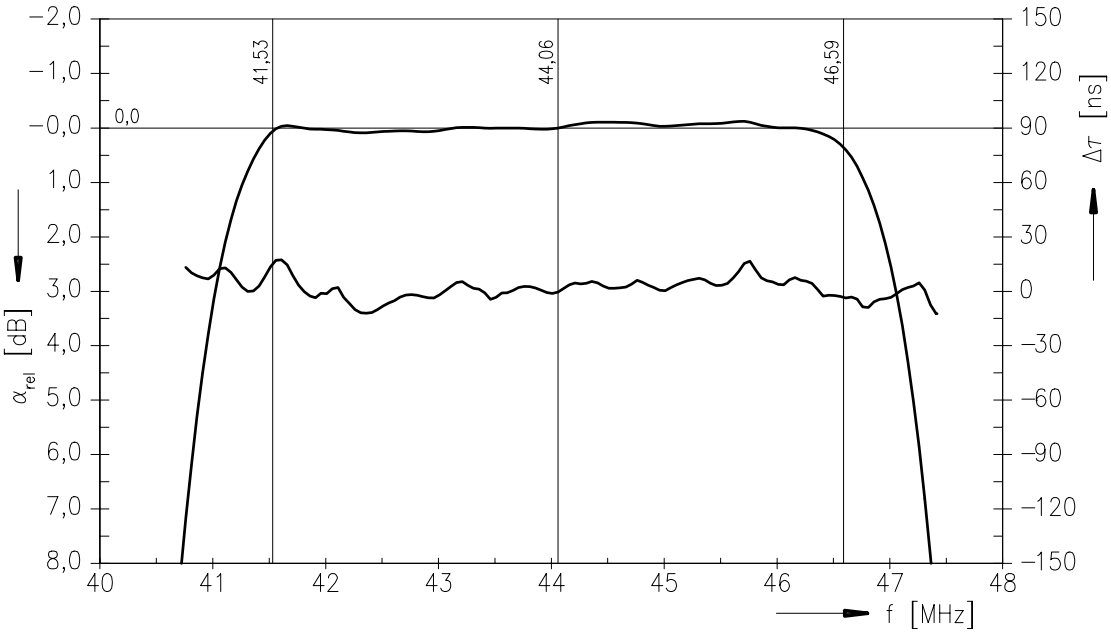
Characteristics

Reference temperature: T_A = 25 (45) ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 2kΩ || 3pF

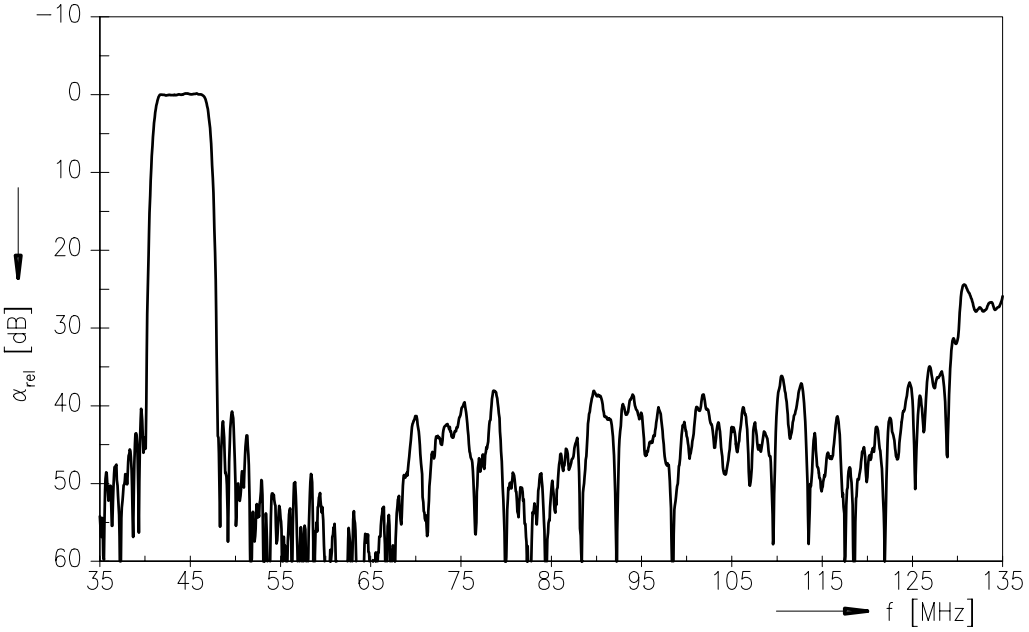
		min.	typ.	max.	
Center frequency (center between 10 dB points)	f_C	—	(44,00)	—	MHz
Insertion attenuation	α				
Reference level for the following data 44,06 (44,00) MHz		12,9	14,4	15,9	dB
Pass bandwidth					
$\alpha_{rel} \leq 3$ dB	B_{3dB}	—	6,0	—	MHz
$\alpha_{rel} \leq 30$ dB	B_{30dB}	—	7,7	—	MHz
Amplitude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

Frequency response

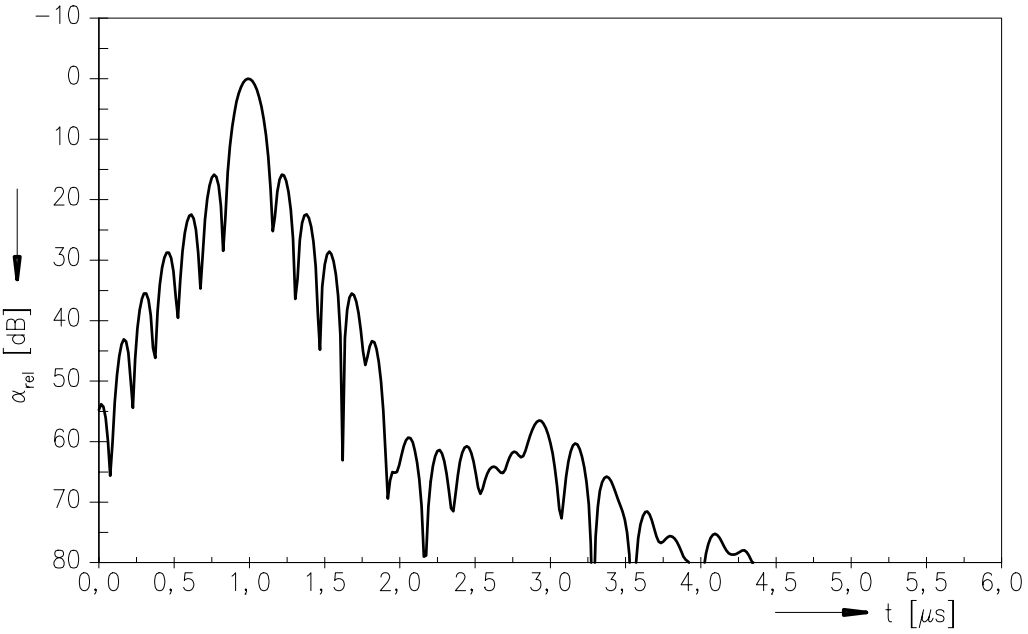




Frequency response



Time domain response



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