



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





SAW Components

Data Sheet





SAW Components

X 7303 P

Bandpass Filter

44,00 MHz

Data Sheet



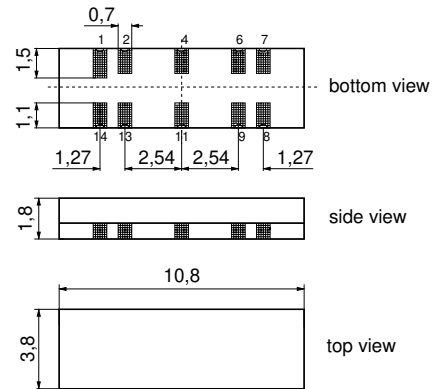
Standard

Polymer package **DOC14A**

- HDTV

Features

- Constant group delay
- Optimized for cascade of two devices
- Unbalanced input option
- **Surface Mounted Technology (SMT)**



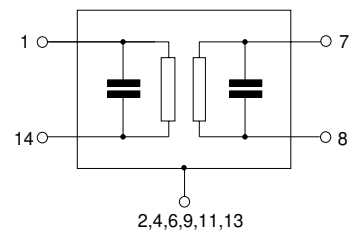
Terminals

- 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 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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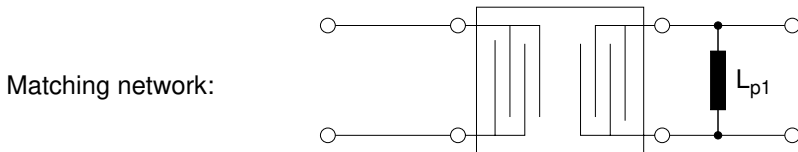
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Characteristics

Reference temperature: $T_A = 25\text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 2\ \text{k}\Omega \parallel 3\ \text{pF}$ 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)	$\Delta\alpha$				
	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)	$\Delta\tau$				
	41,35 ... 46,65 MHz	—	70	—	ns
Impedance at 44,00 MHz					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	3,6 \parallel 14,7	—	k Ω \parallel pF
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	8,8 \parallel 4,3	—	k Ω \parallel pF
Temperature coefficient of frequency	TC_f	—	-18	—	ppm/K



$L_{p1} = 1800\ \text{nH}$



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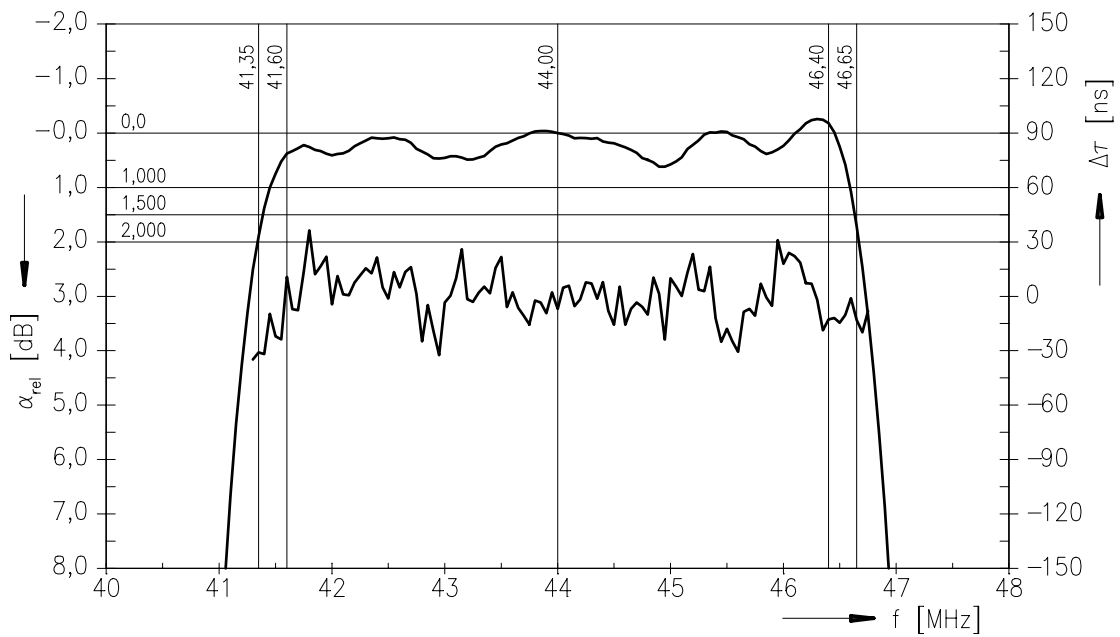
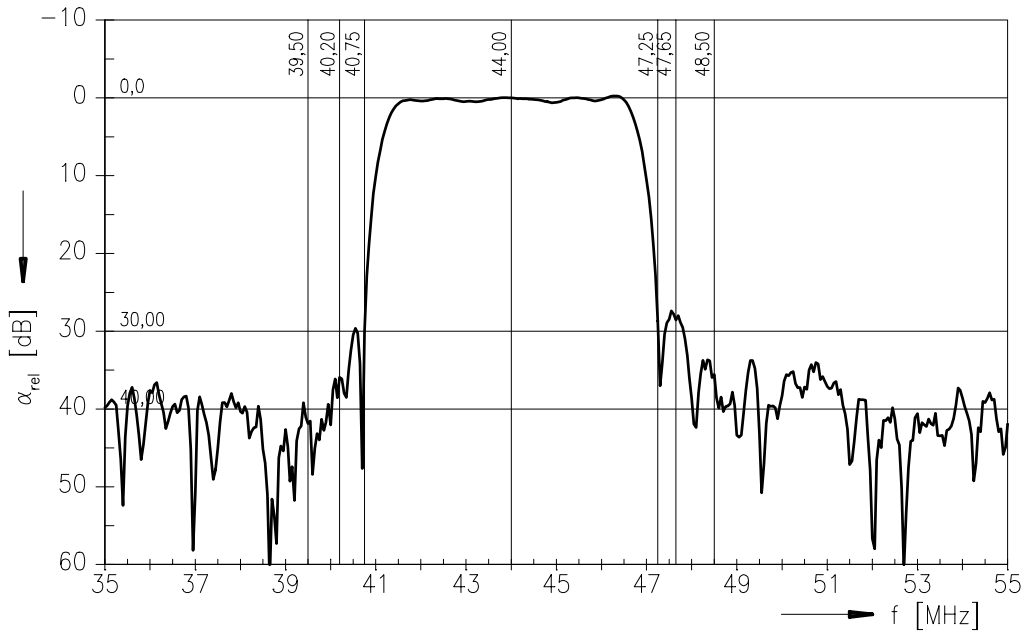
Bandpass Filter

44,00 MHz

Data Sheet



Frequency response





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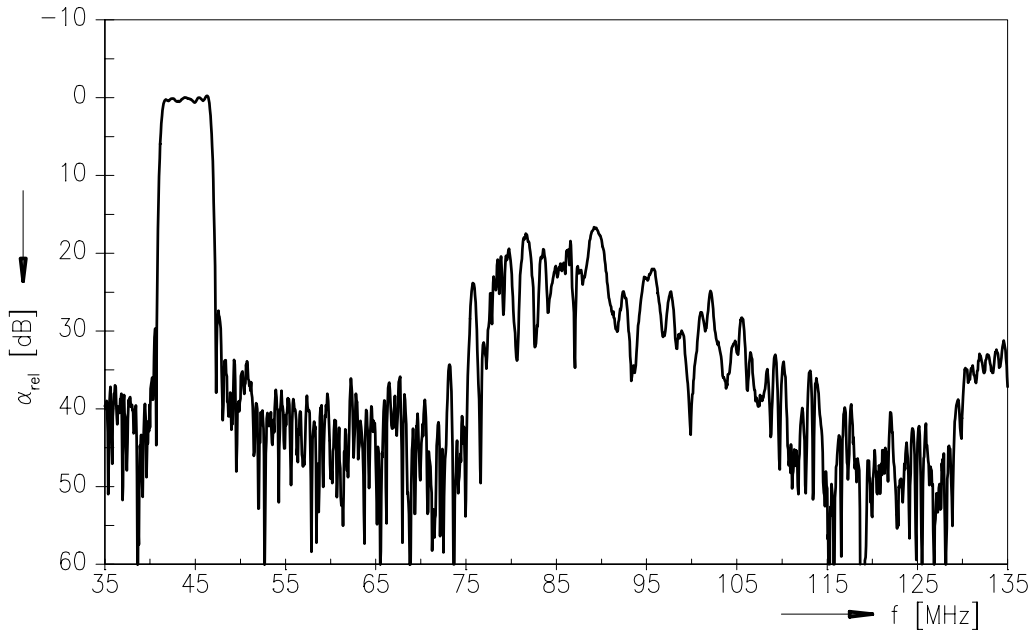
Bandpass Filter

44,00 MHz

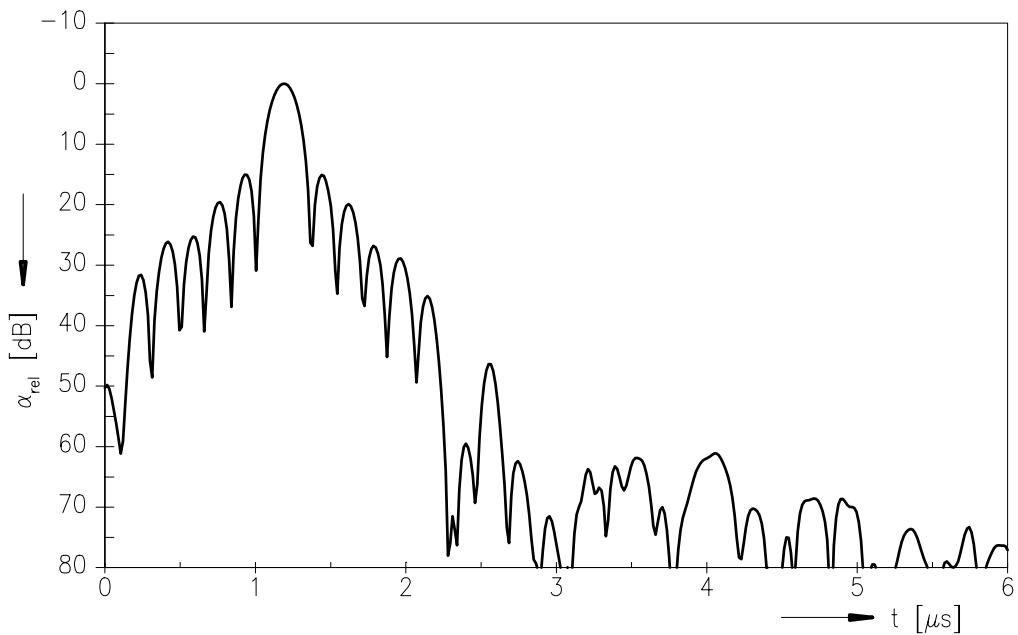
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Frequency response



Time domain response





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P.O. Box 80 17 09, D-81617 München

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