

SAW Components

Data Sheet





SAW Components X 7303 P
Bandpass Filter 44,00 MHz

Data Sheet

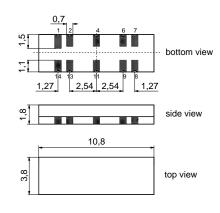
\equiv MD

Standard

■ HDTV

Features

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



Polymer package DOC14A

Terminals

■ Gold plated

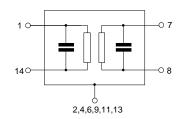
Dimensions in mm, approx. weight 0,14 g

Pin configuration

1 Input14 Input

4,9,11,13 Case - ground

2,6 Ground7 Output8 Output



Туре	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	$T_{ m stg}$	-40/+85	°C	
DC voltage	$V_{\rm DC}$	0	V	between any terminals
AC voltage	$V_{\sf pp}$	10	V	between any terminals



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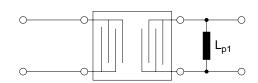
Characteristics

Reference temperature: Terminating source impedance:

 $T_{\rm A} = 25~^{\circ}{\rm C}$ $Z_{\rm S} = 50~\Omega$ $Z_{\rm L} = 2~{\rm k}\Omega~{\rm ||}~3~{\rm pF}$ and matching network Terminating load impedance:

					min.	typ.	max.	
Insertion attenuation				α				
Reference level for the		44,00	MHz		18,0	19,5	21,0	dB
following data								
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	suppressio	on						
1,5 μs 6,0 μs after ma	in pulse				42,0	54,0	_	dB
(test pulse 250 ns,								
carrier frequency 44,00 l	MHz)							
Group delay ripple (p-p	o)			Δau				
· · ·	41,35	46,65	MHz		_	70	_	ns
Impedance at 44,00 MH	łz							
Input:	$Z_{IN} = R_{II}$	$ C_1 $	N		_	3,6 14,7	_	kΩ pF
Output:	$Z_{\text{OUT}} = R_{\text{O}}$	OUT C	DUT		_	8,8 4,3	_	kΩ pF
Temperature coefficient of frequency			TC_{f}	_	-18	_	ppm/K	

Matching network:



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

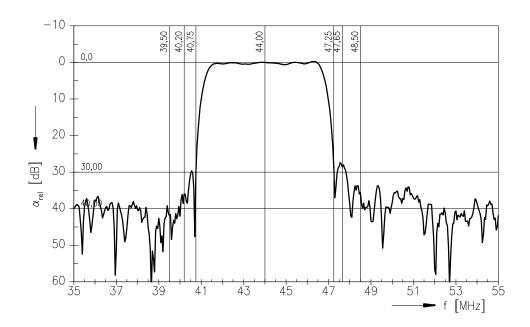


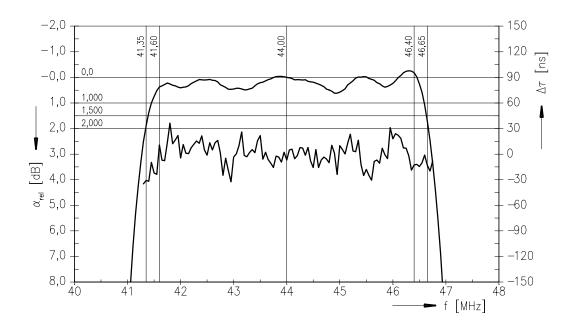
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Frequency response





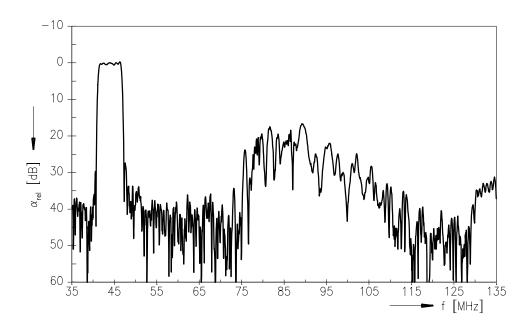


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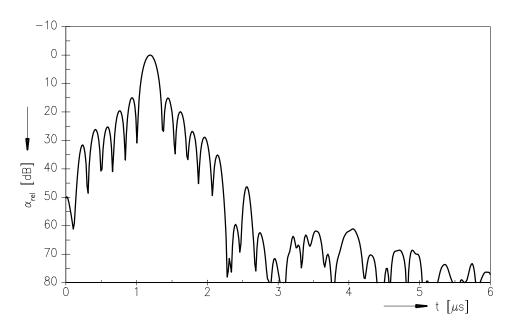
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Frequency response



Time domain response





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