

SAW Components

Data Sheet





SAW Components		X 7303 P
Bandpass Filter		44,00 MHz
Data Sheet	SMD	
o/ I I		

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	Input
14	Input
4,9,11,13	Case – ground
2,6	Ground
7	Output
8	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 _{stg}	-40/+85	°C	
DC voltage	V _{DC}	0	V	between any terminals
AC voltage	$V_{\rm pp}$	10	V	between any terminals

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Characteristics						
Reference temperatu Terminating source ir		$T_{\rm A} = 25$ ° ($Z_{\rm S} = 50 \Omega$				
Terminating load imp				d matching r	network	
			min.	typ.	max.	
Insertion attenuatio	n	α				
Reference level for th following data	ne 44,00 M	1Hz	18,0	19,5	21,0	dB
Amplitude ripple (p-	p)	Δα				
	41,60 46,40 N	1Hz	_	1,0	_	dB
Relative attenuation	l	α_{rel}				
	40,75 N		22,0	28,0	_	dB
	41,35 M	1Hz	0,9	1,9	2,9	dB
	41,60 M	1Hz	-0,7	0,3	1,3	dB
	46,40 N	1Hz	-1,0	0,0	1,0	dB
	46,65 N	1Hz	0,9	1,9	2,9	dB
	47,25 N	1Hz	22,0	29,0	—	dB
Lower sidelobe	35,00 39,50 N	1Hz	28,0	34,0	—	dB
	39,50 40,20 N	1Hz	29,0	35,0	—	dB
Upper sidelobe	47,65 48,50 N	1Hz	24,0	29,0	—	dB
	48,50 55,00 M	1Hz	29,0	35,0	—	dB
Reflected wave sigr	al suppression					
1,5 µs 6,0 µs after	main pulse		42,0	54,0	—	dB
(test pulse 250 ns,						
carrier frequency 44,0	00 MHz)					
Group delay ripple ([p-p)	$\Delta \tau$				
	41,35 46,65 M	1Hz	-	70	—	ns
Impedance at 44,00	MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				3,6 14,7	—	kΩ p
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		т	_	8,8 4,3	—	kΩ p
Temperature coeffic	tient of frequency	TC _f	_	-18	_	ppm/K



Matching network:

L_{p1} = 1800 nH

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Frequency response





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Frequency response



Time domain response





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