

Audio RFI Suppression Filter

Reduce RF Interference in Audio & Analog Circuits

Description

Johanson RFI Suppression Filter Chips feature proven, patented, X2Y® low noise architecture and are one of the most effective EMC filters available on the market today!

The filters ultra low parasitic inductance results in a wide filter stop-band. The dual line filter exhibits tightly matched impedance providing very low noise-mode conversion, an unwanted characteristic that reduces the filtering of typical L-C filters or common mode chokes.

A single, miniature X2Y outperforms complicated multi-pole discrete filters saving space and cost



Typical Application Savings: 40% COST, 60% SIZE REDUCTION

Features

- One Filter for Two Audio Lines
- Filters Both Common & Differential Noise
- LOW MICROPHONICS FOR AUDIO APPLICATIONS
- Ultra-low ESL (Equivalent Series Inductance)
- LOW NOISE MODE-CONVERSION
- Tight Line-to-Line Impedance Matching
- Six Proto-typing Kits Available
- SPICE Models Available

Benefits

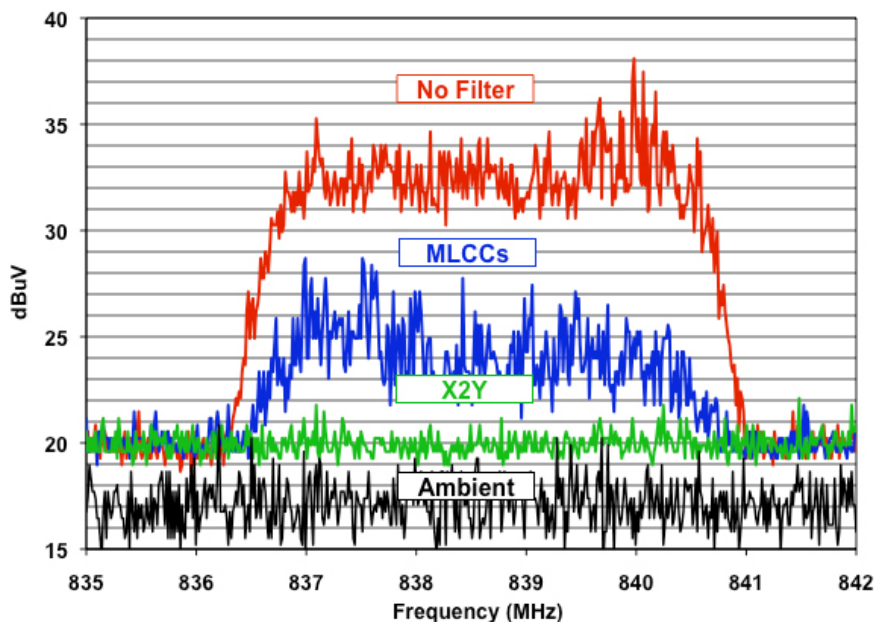
A 1,000pF 0603 EMI filter provided 16dB attenuation of GSM ring signal in a Texas Instruments sponsored analog test.

http://www.johansondielectrics.com/x2ypdfs/JDI_X2Y-for-GSM-Suppression.pdf

Ultra-low ESL and low noise mode-conversion results in improved Radiated Susceptibility EMC performance.

Low Microphonics (acoustic noise) performance as seen in

http://www.johansondielectrics.com/x2ypdfs/JDI_X2Y-Low-Microphonics_03202013.pdf



Product Range

Capacitance		<10pF	10pF	22pF	27pF	33pF	47pF	100pF	220pF	470pF	1000pF	1500pF	2200pF	2700pF	3300pF	4700pF	6800pF	.01µF	.015µF	.022µF	.027µF	.033µF	.047µF	.068µF	.082µF	.10µF	.18µF	0.22µF	0.33µF	0.40µF	0.47µF	1.0µF
SIZE	CAP. CODE	X7R	100	220	270	330	470	101	221	471	102	152	222	272	332	472	682	103	153	223	273	393	473	683	823	104	184	224	334	404	474	105
0402 (X07)	NPO	50	50	50	50	50	50	50																								
	X7R								50	50	50	50	50			50		16														
0603 (X14)	NPO	100	100	100	100	100	50	50	50																							
	X7R							100	100	100	100	100	100			100		50	25	25			16			10		10				
	X5R																											16	10		10	10
0805 (X15)	NPO		100	100	100	100	100	100	100	50																						
	X7R							100	100	100	100	100	100			100		100	50	50			50			25	10					
1206 (X18)	NPO			VOLTAGE 10 = 10 VDC 16 = 16 VDC							100																					
	X7R										200					200		100	100	100			100			100		16	16		10	
1210 (X41)	NPO			25 = 25 VDC										200		500		500	500	500	200		200	200		100		100	100		25	16
	X7R			50 = 50 VDC																												
1410 (X44)	NPO			100 = 100 VDC											200				500	500	500		200		200						50	
	X7R			200 = 500 VDC																											100	
1812 (X43)	NPO			500 = 500 VDC													200						500	500	500						50	
	X7R																										200				100	
Please contact factory for variations / parts not shown																																

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Full product details at <http://www.johansondielectrics.com/x2y-products.html>

Applications

Markets	End Product Application	Circuit Application
IT	Network Devices	EMI Filter on DC Power Input
	Portable POS Terminal	
	IP Phone Terminal	
	Desktop Disk Drive	
CONSUMER	Wireless Sound System	
	Wireless Headphone Base	
	PC Tablet	
	Cordless Phone	
	Kiosk Displays	
INDUSTRIAL	Process Controls	
	Analytical Test Equipment	
	LED Signs	
MEDICAL	Remote Patient Monitor Base	
	Medical Test Equipment	