

DC-DC Converter EMI Filter

Reduce Switching Noise, Speed EMC Compliance

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!

This filter's ultra low parasitic inductance result 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 X2Y outperforms complicated multi-pole discrete filters saving space and cost



Speed Time to Market, Reduce Compliance Testing Costs

Features

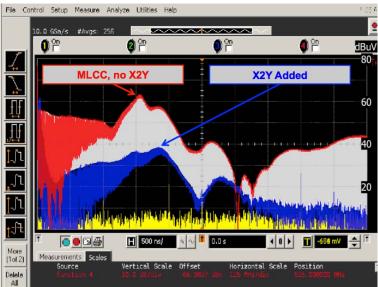
- Large Noise Reduction from Single Component
- 28:1 Amplitude Reduction
- Noise Reduction up to 41dBuV
- Low Conducted / Radiated Emissions
- NO CURRENT LIMIT due to Bypass Configuration
- Ultra-low ESL (Equivalent Series Inductance)
- LOW NOISE MODE-CONVERSION
- Tight Line-to-Line Impedance Matching
- Six Proto-typing Kits Available
- SPICE Models Available

Benefits

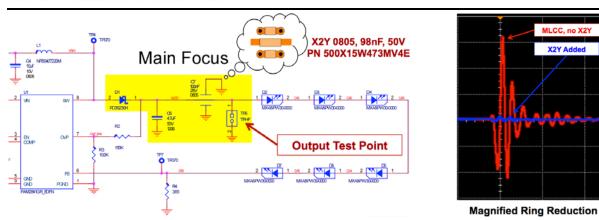
These EMI filters have superior Common mode rejection and also exhibit up to 17dB better noise mode-conversion than typical common-mode chokes.

Noise mode-conversion is the "hidden enemy" in EMC filtering applications. Mode conversion is not specified by filter component vendors and defeats the typically published 50Ω impedance.

Lower noise mode-conversion results in huge improvement in both Conducted and Radiated Emission performance.







Product Range

Capacitano	се	<10pF	10pF	22pF	27pF	33pF	47pF	100pF	220pF	470pF	1000pF	1500pF	2200pF	2700pF	3300pF	4700pF	6800pF	.01 OµF	.015µF	.022µF	.027µF	.039µF	.047µF	.068µF	.082µF	0.10µF	0.18µF	0.22µF	0.33µF	0.40µF	0.47µF	1.0μF
SIZE	CAP.	XBX	100	220	270	330	470	101	221	47.1	102	152	222	272	332	472	682	103	153	233	273	393	473	683	823	104	184	224	334	404	474	105
0400 (V07)	NPO	50	50	50	50	50	50	50																								
0402 (X07)	X7R								50	50	50	50	50			50		16														
	NPO	100	100	100	100	100	50	50	50																							
0603 (X14)	X7R							100	100	100	100	100	100			100		50	25	25			16			10		10				
	X5R																											16	10		10	10
0005 0(45)	NPO		100	100	100	100	100	100	100	50																						
0805 (X15)	X7R							100	100	100	100	100	100			100		100	50	50			50			25	10					
1000 0/10	NPO			1 -	OLTA						100																					
1206 (X18	X7R				= 10 V = 16 V											200		100	100	100			100			100		16	16		10	
1210 (X41)	NPO X7R				= 25 V = 50 V									200		500		500	500	500	200		200	200		100		100	100		25	16
1410 (X44)	NPO X7R			100	= 100	VDC									200				500	500	500		200		200					50 100		
1812 (X43)	NPO X7R				= 500 = 500												200					500	500	500			200				50 100	
							F	Pleas	se c	onta	ct fa	acto	ry fo	r va	riati	ons	/ pa	rts r	ot s	how	'n											

Applications

Markets	End Product Application	Circuit Application
	Network Devices	
IT	Sever POL	
	SFP Power	
	Connected Home	
CONSUMER	Smart Grid Power Regulation	Noise Reduction of DC-DC
	Kiosk Displays	Converter
	Process Controls	Converter
INDUSTRIAL	Analytical Test Equipment	
	LED Signs	
MEDICAL	Remote Patient Monitor Base	
IVIEDICAL	Medical Test Equipment	