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 X2Y Attenuators, LLC 37554 Hills Tech Dr. Farmington Hills, MI 48331
 248-489-0007 x2y@x2y.com. For more information on EMI filtering of DC motors go to www.x2y.com and refer to Application Notes: ¾4001 - DC Motor Design with X2Y®Technology. ¾4002 - DC Motor Design with X2Y®Example A.

[DC Motor EMI Suppression - X2Y Attenuators](#)

DC Motors generally produce a lot of noise in an electrical system due to the excessive amount of EMI and RFI they generate. Some DC motors are designed with EMI in mind by selecting certain overlapping case materials to provide additional shielding. There are many different EMI filtering elements, but each has their advantages and disadvantages. Figure 7 - EMI Filtering Elements (Source: X2Y Attenuators, LLC DC Motors)

[DC Motor and Switch Applications - How to reduce EMI and ...](#)

The need for noise suppression in DC motors used around the world is on the increase. X2Y® is a single component

EMI filter that has met the most stringent EMC requirements including those imposed by automotive manufacturing companies. Visit the X2Y website to learn about applying the X2Y chip carrier in motors at: <http://www.x2y.com/appnotes.htm>

[X2Y® Chip Carrier for DC Motors](#)

X2Y® improves performance, component reduction and cost savings in an electronic applications. X2Y® components deliver a leap forward in circuit performance versus ordinary multi-layer ceramic capacitors (MLCCs). In EMI Filtering we deliver dramatic reduction of conducted and radiated noise to meet Electro-magnetic Compatibility requirements.

[X2Y Attenuators - Technical Library](#)

DC Motor Design with X2Y® Example B For comparison, two different production end-caps were also measured. Motor #1 used 2 inductors and 2 standard capacitors and Motor #2 used a single x-capacitor (Figure 4). Figure 4. 3 different end-caps used to provide EMI suppression. Figure 5 is the measured radiated emissions. The X2Y® Motor had superior

[DC Motor Design with X2Y® Example B](#)

A single X2Y device is used to suppress noise in small DC motors, replacing up to seven components currently used for EMI, including inductors, ferrites and standard capacitors. RJ 45 Connectors.

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X2Y as an EMI filter for brushed DC motor 1) Introduction The X2Y component is a very effective way to reduce the noise generated by a brushed-DC motor. However, EMC is a

vast subject and this two-page document does obviously not represent an EMC solution. It is just an example of implementation of EMI filter on power leads of a brushed-DC motor.

X2Y as an EMI filter for brushed DC motor

DC Motor Design with X2Y® Technology A. X2Y® is a four terminal device. The terminals are identified as A, B, G1 and G2 (left Figure 1). A and B are connected across the power leads and G1 and G2 are attached to ground (right Figure 1). (For DC motors, ground would be the motor housing.) Figure 1. X2Y® made of ceramic (left).

DC Motor Design with X2Y® Technology

Common-Mode noise filtering with low noise mode conversion. X2Y® components reduce EMI emissions far better than unbalanced discrete shunt capacitors or series inductive filters. Differential signal loss is determined by the cut off frequency of the single line-to-ground (Y) capacitor value of an X2Y®. X2Y® FILTER & DECOUPLING CAPACITORS

Johanson Dielectrics X2Y Filter & Decoupling Capacitors

It's not perfect though because EMI will still leak through the plastic end-cap; so you can't use it as a substitution for component-based EMC suppression. Conclusion. EMC is an important field in electronics with strict regulations, and DC motors and their circuits are significant sources of EMI.

AB-005 : Electromagnetic Compatibility (EMC / EMI) for ...

The most efficient way to silence the EMI is to use a ferrite core (semi-flattened cylinder or donut torus core) with both

power leads to the motor separated and each having its wires wound around it (at least a few turns or more to form a common mode transformer.

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EMI Suppression for DC Motors using X2Y Components those 4 principles to a design to improve EMI suppression. Previously published work^{1,2} has shown that X2Y[®] components offer superior performance as cost effective EMI suppression for DC washer pump motors (Figure 1).

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EMI Filtering. EMI/RFI interference is either radiated or conducted over a frequency range of between several hundred hertz to several gigahertz. Radiated noise is generated by the voltage applied at varying levels to the wiring. To confine radiations in the motor housing, several precautions should be taken by manufacturers of brush dc motors.

EMI Filter Cost Effective Solution for Brush DC Motor EMC ...

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X2Y Attenuators, LLC 37554 Hills Tech Dr. Farmington Hills, MI 48331 248-489-0007 x2y@x2y.com. For more information on EMI filtering of DC motors go to www.x2y.com and refer to Application Notes: ¾4001 - DC Motor Design with X2Y®Technology. ¾4002 - DC Motor Design with X2Y®Example A.

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