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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](http://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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## **DC Motor EMI Suppression - X2Y Attenuators**

DC Motor Design with X2Y® Example A  
Figure 2. Positive aspects of the design  
that help EMI suppression. Figure 3  
highlights some negative aspects of the  
design that hinder EMI suppression.  
Addressing the following problems can

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improve EMI suppression dramatically:

1. The trace lengths should be short and wide to reduce inductance (Principle #3.B.ii.).

## **DC Motor Design with X2Y® Example A**

EMI Suppression for DC. Motors using X2Y. Components Issue 3. Page 2 of 3.

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Introduction. X2Y products are integrated passive components which are manufactured by Syfer Technology Ltd. under license from X2Y Attenuators LLC. For unbalanced applications they provide ultra low ESL.

## **EMI Suppression for DC Motors using X2Y Components**



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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

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superior

## **DC Motor Design with X2Y® Example B**

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

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advantages and disadvantages. Figure 7  
- EMI Filtering Elements (Source: X2Y  
Attenuators, LLC DC Motors)  
Understanding how each element works  
is extremely advantageous when it  
comes to designing the proper EMI  
suppression filter or RFI for an  
application.

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## **DC Motor and Switch Applications - How to reduce EMI and ...**

X2Y® capacitors are used extensively for EMI filtering in DC motors used in automotive, heavy equipment, industrial control, medical, and agricultural applications.

## **X2Y® Chip Carrier for DC Motors**

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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. In Bypass/Decoupling we provide ultra-low inductance provides broadband

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bypassing to lower noise, or reduce system cost through passive component reduction.

### **X2Y Attenuators - Technical Library**

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.

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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 ...**

Next generation vehicles have more DC motors used in new applications. The

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ability to suppress EMI cost effectively requires more than just throwing a filter on the motor. To effectively meet requirements and cost criteria a system engineering approach is required from concept to production.

**“EMC DESIGN AND SUPPRESSION  
FOR DC MOTORS IN MILITARY AND**



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...

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 reduction brushed dc motor - Page 1 - EEVblog**

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EMI Suppression | Grizzly Bear -  
Academia.edu Academia.edu is a  
platform for academics to share  
research papers.

## **(PDF) X2Y Attenuators, LLC DC**

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## **Motor EMI Suppression ...**

- One device for EMI suppression or decoupling
- Replace up to 7 components with one X2Y
- Differential and common mode attenuation
- Matched capacitance line to ground, both lines
- Low inductance due to cancellation effect

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## **Johanson Dielectrics X2Y Filter & Decoupling Capacitors**

The results show that the X2Y filter can effectively suppress the conducted and radiated electromagnetic interference of DC motor, which can greatly enhance the electromagnetic compatibility characteristics of the DC motor. The basic principle of electromagnetic

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interference, test methods, and suppression measures for DC motor are studied and analyzed.

## **Suppression Methods for Electromagnetic Interference of ...**

DESCRIPTION X2Y® series is a breakthrough in the design of ceramic multilayer products for decoupling and

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filtering in an IPD (integrated passive device). X2Y® products comprise two identical Y-capacitors and one X-capacitor, integrated into a 4 terminal device, which is available in standard MLCC sizes.

### **DATA SHEET - YAGEO**

Q: Which motor exhibits the most

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electrical magnetic interference/noise between AC motors, brushed DC motors, and brushless motors? A: If we look at the 3 motor's design, construction, and characteristics, the brushless motor would likely exhibit the least amount of EMI.

### **EMI Comparison between AC,**

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### **Brushed, and Brushless Motors ...**

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. 2)



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Guidelines (diagrams in the next page)

## **X2Y as an EMI filter for brushed DC motor**

High Voltage MLC Capacitors. Our High Voltage Capacitors feature a special internal electrode design which reduces voltage concentrations by distributing voltage gradients throughout the entire

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capacitor. These capacitors are designed and manufactured to the general requirement of EIA198 and are subjected to a 100% electrical testing making them well suited for a wide variety of ...

### **High Voltage Capacitors and Power Resistors | Johanson ...**

Capable of replacing 2 or more

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conventional devices, the X2Y ceramic capacitors are ideal for high frequency filtering or noise suppression of supply voltages in digital circuits, and can prove invaluable in meeting stringent EMC demands in dc motors, in automotive, audio, sensor and other applications.

**Ceramic capacitor - Wikipedia**

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Syfer's EMI filter lineup has SMD feed through capacitors rated to 3 A, SMD C and Pi filters rated to 20 A and X2Y® technology. The broad Syfer AEC Q200 qualified family features both surface mount EMI filters and high-voltage MLCCs focused on the HEV and EV automotive market.

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