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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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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. AN0018 Issue 3 EMI

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Suppression for DC Motors using X2Y Components CN# P109234. Syfer Technology Limited, Old Stoke Road, Arminghall, Norwich, Norfolk, NR14 8SQ, EMI Suppression for DC Motors. using X2Y Integrated Passive.

EMI Suppression for DC Motors using X2Y Components

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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). The purpose of this application note is to produce a retrofit production capable prototype end cap utilizing the X2Y[®]

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Technology.

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

DESCRIPTION X2Y® series is a breakthrough in the design of ceramic multilayer products for decoupling and filtering in an IPD (integrated passive

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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

It's not perfect though because EMI will still leak through the plastic end-cap; so

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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 ...**

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

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“EMC DESIGN AND SUPPRESSION FOR DC MOTORS IN MILITARY AND

...

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DC Motor Design with X2Y® Technology
Summary Traditionally the automotive industry only required filtering for the AM and FM bands (150 KHz - 200 MHz) because electromagnetic interference at car radios frequencies were the main concern.

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DC Motor Design with X2Y® Technology

- 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

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cancellation effect

Johanson Dielectrics X2Y Filter & Decoupling Capacitors

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

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(at least a few turns or more to form a common mode transformer.

emi reduction brushed dc motor - Page 1 - EEVblog

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

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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) Guidelines (diagrams in the next page)

X2Y as an EMI filter for brushed DC motor

The results show that the X2Y filter can

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

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Suppression Methods for Electromagnetic Interference of ...

□ 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

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cancellation effect

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DC motors, especially brushed motors tend to generate a lot of noise (both acoustical and electrical), and the electrical noise can interfere with RF circuits and even logic circuits if not isolated properly, leading to erratic

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behaviors. This kind of noise-induced erratic behavior can sometimes be very hard to trace and debug.

Kerry D. Wong » Blog Archive » A Short Guide On Motor ...

One active approach to reduce the effects of EMI is by customizing DC motor and encoder combinations with

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differential line drivers. Differential circuits improve noise immunity by processing a signal that is the algebraic difference of two complementary signals at the input.

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