

Re: (Beginner) Varistor or TVS

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- *From:* "Chris" <cfoley1064@xxxxxxxxxx>
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Ant_Magma wrote:

Thanks for you advice Chris. There were a few problems that had me started with this project too late which i won't elaborate further.

If i follow your method, won't i have 2 plug heads (don't know what's the proper term)? 1 plug brings in the signal to the transformer then to the coupler and the other brings in the power supply from the wall wart?

I have already ordered Bel's powerline signal coupler, can i try and build it like the schematic drawn in the datasheet? The live and neutral wires are connected parallely to the coupler and the PSU (step-down transformer). Since the coupler only passess the Homeplug frequency of 4Mhz-20Mhz filtering out the 50/60Hz power frequency i should be safe right? For the step-down transformer i'm thinking of using any encapsulated PCB transformer available on Farnell.

Please advice.

Btw, Chris i guessed you have read the datasheet (however brief) it is of the Bel's powerline signal coupler. At the last couple of pages with the schematics, at the capacitor it writes 4.7n x2 class. What does x2 class mean? And the 2 resistors 200k, can't they just use a 400k resistor?

At the Electrical specifications part of the Bel coupler, the parameters of the coupler has this Hi Pot @60Hz 1mA and a value of 2000V. What does it mean? It rejects the 60Hz?

Hi, Ant_Magma. One thing at a time.

A real engineering prototype would have one line cord, with the split to the powerline modem and the power supply occurring inside the box.

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For a proof-of-concept prototype, and for initial work, you can have two plugs. You can always add a small linear or switching power supply later, after you have the thing working. Points off for proof-of-concept as opposed to full engineering prototype, but no points if it doesn't