

Why are two EMI Y-capacitors in series between primary and secondary?

Why two EMI Y-capacitors in series between primary and secondary? Y-capacitors between primary and secondary are often used to reduce common mode noise in flyback SMPS, as explained also here. I have read that two Y-capacitors in series are needed to be compliant with the safety standards regarding home appliances (60335).

Can a Y2 capacitor be used as a protective impedance?

In cheaper designs, two Y2-caps were connected in series to meet the same maximum peak voltage. See this document for more information on these safety caps. Subcl 22.42, meeting 9, agenda item 7.9: A single Y1 capacitor is not allowed as a protective impedance.

Do Y1 and Y2 capacitors work together?

Any hints or comments are welcome. In most hi-volume commercial designs that I have seen, one single Y1 capacitor was always used alone between the primary and the secondary in universal mains applications, e.g. notebook chargers. In cheaper designs, two Y2-caps were connected in series to meet the same maximum peak voltage.

Is inter-winding capacitance a problem?

The inter-winding capacitance of a transformer is by itself not an issue. Only thing is, once the transformer is not 100% symmetric (like in my example, or also 10 turn pri, 2 turn sec) high frequency currents start to flow through the "source" x, generating common mode noise. Those noises are a big problem and cost a lot of money to filter out!

Why does the capacitance increase at a LCR meter?

Due to the internal way LCR meters measure (often RMS current/voltage measurement with low pass filtering of the measured impedance), you would get a capacitance increasing at the LCR meter get close to 1kHz, aliasing (getting very high and very low results) at 1kHz and then decreasing again.

Score: 4.7/5 (25 votes) . Secondary insurance is health insurance that pays after primary insurance on a claim for medical or hospital care usually pays for some or all of ...

Understanding Primary and Secondary Insurance. Primary and secondary insurance refer to the order in which insurance companies will pay for your medical or dental expenses. Primary ...

Secondary health insurance provides the coverage of a full health care policy while supplemental insurance is intended only to augment an existing primary care plan. Choosing one of these ...

Secondary insurance can help cover out-of-pocket expenses, such as copayments, deductibles, and



coinsurance, that are not fully covered by the primary insurance plan. Secondary ...

Your primary insurance plan pays first when you get medical care, providing the coverage and cost sharing specified in your policy.; Your secondary insurance pays ...

2 ???&#0183; The complexity of handling multiple medical insurance claims demands a systematic approach to ensure accurate processing, timely reimbursements, and compliance. Secondary insurance billing and coordination of benefits ...

Score: 4.5/5 (20 votes) . How do you determine which health insurance is primary? Determining which health plan is primary is straightforward: "If you are covered under ...

Secondary insurance refers to additional coverage that supplements a primary insurance policy. When an individual has more than one health insurance plan, the additional coverage beyond ...

The primary - secondary Y1 capacitor essentially shorts across the EMI current generator with a capacitance value much larger than the typical transformer interwinding ...

The secondary insurance will then cover any expenses that are still covered by its health plan. Coordination of benefits refers to the collaboration of two health insurance companies to offer coverage. Insurance companies ...

Secondary insurance is an additional health insurance policy that covers costs not fully paid by primary insurance, such as copayments, coinsurance, and deductibles. It supplements primary ...

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