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ELECTRICAL ISOLATOR



ABSTRACT

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5 An electrical isolator device is provided for
protecting electronic devices. The isolator has a housing
functioning as an electromagnetic shield with an aperture
through which a connector extends. The connector has an
inner and outer conductor. A ferrite spacer surrounds the
10 connector thereby plugging the aperture and impeding
electromagnetic interference (EMI) from entering the
housing through the aperture. The housing is an electrical
conductor which is coupled to the outer conductor of the
connector by at least one capacitor. The ferrite spacer
15 introduces an impedance in the outer conductor of the
connector. An electrical network for attenuating
electrical noise entering the housing in the outer
conductor is formed by the ferrite impedance, the housing
and at least one capacitor.

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Figure 1