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EMI Shielding and Its Various Types by [James Blee](#)

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Interference causes poor performance, interruptions and disturbance in the working of electronic equipment and unfortunately most of them are prone to it. This calls for the need of emi shielding which can significantly reduce or cut down all interference problems without affecting the performance of the device. Any malfunction of this shield can be severe may cause failure of the device, thus precautions must be adhered at all times. Various types and methods of shielding are used by manufacturers of electronic gadgets. Without it, electronic devices can't work at all and hence it is an extremely important component to consider.

Shielding laminate is a type of shielding which is created from an opaque item and it is incorporated in the device using metallic foils. Also termed as filters in certain cases, these are mostly used to protect the device from unwanted noise disturbance. These filters can also be modified in their design and structure which can act as a shield to eliminate unwanted disturbances. Shielded lines, houses, walls and absorbers are some of the shielding techniques used by electronic manufacturers to shield the equipment. A shielded house is basically a cover of metallic sheet or foam and foil to prevent the EMI.

Shielded lines are similar to EMC filters preventing undesirable intrusion of electromagnetic effect. These can be either metal coated or covered. Shielded walls are mostly used for devices working on high frequencies. Made of protective metals, they prevent interference without harming the device performance. EMI wave absorbers are another type of shielding manufactured from foam materials or discs. It functions by attracting the unwanted EMI thereby protecting the device from harmful effects of interference.

Shielding an electronic device is quite a difficult task unless and until proper considerations are taken into account while manufacturing an electronic device. Available in various shapes, sizes and of different materials, these shields are modified into standardized shapes and precisely designed for optimum performance of a device without any interference. Without shielding, it would have been impossible to operate efficiently any electronic items and hence it's vital.

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