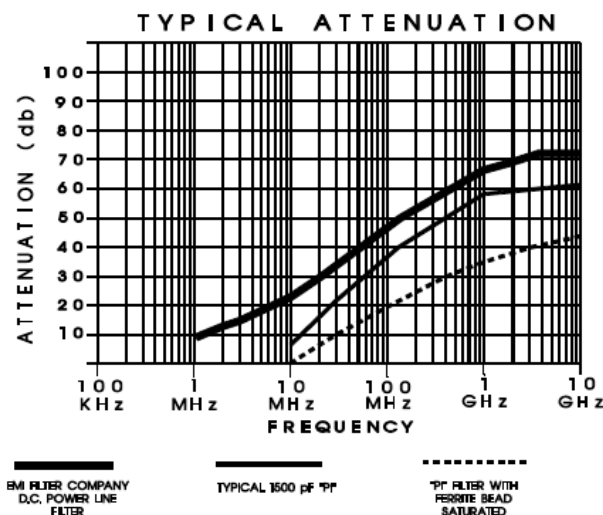


## D. C. POWER LINE FILTERS

For years filtering of DC power lines has typically depended on the use of 1500 pF (Pi) filters to achieve the desired attenuation levels. To keep packaging small, these filters are manufactured using tubular capacitors. One of the trade-offs is that the current cannot exceed 250mA. At this current level the ferrite bead used as the inductor saturates, effectively eliminating the inductance from the filter, leaving only the capacitance value, greatly diminishing filter performance. (See graph below for comparison.)

EMI Filter Company has introduced a series of superior DC power line filters designed to handle higher RF power with greater attenuation levels at lower frequencies neglected by these composite tubular (Pi) filters. **These filters more closely match power circuit impedances with better performance under power.** EMI Filter Company manufactures these filters in the same basic packages as used by the tubular type filters, using their own Ceramic Multi-layer Discoidal Capacitors. The use of Discoidal Capacitors also allows **EMI Filter Company** to provide the SMALLEST commercially available filter in this series the new PLR3400.

### ELECTRICAL SPECIFICATIONS



Graph showing the SUPERIOR attenuation of EMI FILTER COMPANY POWER LINE filters over typical 1500pF "Pi" filters.

FOR PHYSICAL SIZE DATA, SEE THE BOLT BODY STYLE REFERENCE ON PAGE 3

#### Powerline Part Numbering:

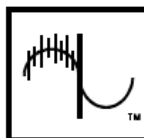
Part Number	PL3400	PLR3400	PL4400	PL5400	PL7400	PL8400
Thread/Bolt Style	4-40 (B3)	4-40 (R3)	4-40 (B4)	4-40 (B5)	8-32 (B7)	8-32 (B8)

**RATED VOLTAGE:** 100 volts (DC)

**DIELECTRIC WITHSTAND VOLTAGE (DWV) :** 250 volts (DC) for 5 secs. @ 25° C

**RATED CURRENT:** 10 Amps. (DC) MAX.

**OPERATING TEMPERATURE:** -55° C to +125° C



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*MOUNTING HARDWARE ON REQUEST*