



SUPPRESSION COMPONENTS OVERVIEW



EMI SUPPRESSION BEADS

Fair-Rite offers a broad selection of ferrite EMI suppression beads with guaranteed minimum impedance specifications.



BEADS-ON-LEADS

Beads-on-leads are ferrite suppression devices supplied assembled on tinned copper for automated circuit board assembly.



PC BEADS

Multiple single-turn or multi-turn printed circuit board beads are available in 44 or 52 materials.



WOUND BEADS

Wound beads available in 6 or 11 hole configurations, both with or without windings, in 44 and 61 material.



SM BEADS (Common Mode)

Available in both broadband and high-frequency materials and various sizes for suppression of EMI noise.



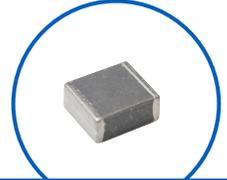
SM BEADS (Differential Mode)

The rugged construction of these SM beads lowers the DC resistance and increases current carrying capacity compared to plated beads.



MULTI-APERTURE CORES

Can be used in a variety of applications including suppression, balun (balanced – unbalanced) designs, common-mode chokes, and other broadband transformers.



CHIP BEADS

100% tested for impedance and DC resistance. They are available in standard, high and GHz signal speeds.



ROUND CABLE CORES

Offered in several different materials, these mitigate both differential and common-mode conducted EMI from 200 kHz up through 1 GHz.



ROUND CABLE SNAP-ITS

Available in several materials to suppress differential or common-mode conducted EMI from 200 kHz up through 1 GHz.



FLAT CABLE CORES

Can accommodate multi-conductor flat cables in widths from 8.9mm (0.35") up to 77mm (3.02").



FLAT CABLE SNAP-ITS

Can accommodate multi-conductor flat cables in up to 64mm (2.52") wide. These are available in two materials to reduce broadband conducted EMI from one to hundreds of MHz.



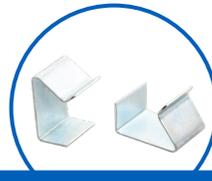
CONNECTOR PLATES

All connector plates are supplied in our NiZn 44 material grade ideally suited for this application with its high impedance and high resistivity.



MISCELLANEOUS CORES

Fair-Rite Products offers a selection of ferrite cores in special geometries. Cores are tooled and manufactured with our 43 or 77 materials.



FLAT CABLE CORES ASSEMBLY CLIPS

Fair-Rite Products offers several securing clips to accommodate the assembly of our split flat cable suppression cores.



FLEXIBLE FERRITE

NiZn flexible ferrite available in six initial permeabilities. Useful in the mitigation of radiated emissions, sheets are available in thicknesses ranging from 0.1mm to 0.5mm .



POWER & INDUCTIVE COMPONENTS OVERVIEW



RODS

Used extensively in high energy storage designs due to their high DC saturation levels. These are also used for inductive components that require temperature stability and high Q.



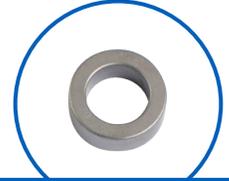
ANTENNA/RFID RODS

Available in three materials to cover the frequency range from 50kHz to 25MHz: 78 for less than 200kHz, 61 for 0.2 to 5MHz and 67 for greater than 5MHz



BOBBINS

Fair-Rite Products offers bobbins made in our 44 material for higher frequency designs and our 77 material for higher power designs.



TOROIDS

Fair-Rite offers this versatile geometry in various materials, from our lowest to our highest permeability.



COATED TOROIDS

Smaller Toroids (<9.5mm) can be supplied Parylene C coated. Larger Toroids (>9.5mm) can be supplied with a uniform coating of thermo-set plastic.



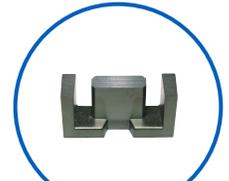
POT CORES

Commonly used in high Q inductors, tuned circuits, and wide band transformers, pot cores are available in 78 and 95 materials for operating frequencies up to 200kHz.



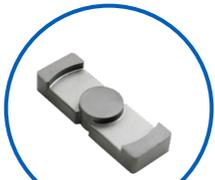
E CORES

Offer an economical design approach for inductive applications in a variety of designs. They are widely applied in differential-mode inductors and power converter transformers.



EFD CORES

Designed to maximize volume in a low profile package providing improved heat dissipation.



ETD CORES

Makes optimal use of volume area for maximum power throughput and increased efficiency, specifically for forward power converter transformers.



EER CORES

Widely used in switched-mode power supplies and permit off-line designs where IEC and VDE isolation requirements must be met.



EP CORES

Reduce the effect of residual air gap upon the effective permeability of the core thereby minimizing coil volume for a given inductance while providing excellent shielding.



PLANAR CORES

Ideal for integrating with PCB designs since they have a smaller footprint than other power geometries. Available in our 95 and 78 materials.



PQ CORES

Developed for use in power applications, the large surface area of PQ cores aid in heat dissipation. Available in 78 and 95 materials



RM CORES

Available in 78 and 95 materials for operating frequencies up to 200kHz, typical applications for RM cores include power chokes and broad band transformers.



U CORES

Offers an economical core design with a nearly uniform cross-sectional area. Long legs can provide high voltage isolation and low leakage inductance. Available in 77 material.

For more information on these and other products visit **FAIR-RITE.COM**