

# FERRITE MATERIALS

**MATERIAL 33** ( $\mu = 600$ ) A manganese-zinc material having low volume resistivity. Used for low frequency antennas in the 1 KHz to 1 MHz frequency range. Available in rod form only.

**MATERIAL 43** ( $\mu = 850$ ) High volume resistivity. For medium frequency inductors and wideband transformers up to 50 MHz. **Optimum frequency attenuation from 40 MHz to 400 MHz.** Available in toroidal cores, shield beads, multi-aperture cores and special shapes for RFI suppression.

**MATERIAL 61** ( $\mu = 125$ ) **Offers moderate temperature stability and high 'Q' for frequencies 0.2 MHz to 15 MHz. Useful for wideband transformers to 200 MHz and frequency attenuation above 200 MHz.** Available in toroids, rods, bobbins and multi-aperture cores.

**MATERIAL 63** ( $\mu = 40$ ) **For high 'Q' inductors in the 15 MHz to 25 MHz frequency range. Available in toroidal form only.**

**MATERIAL 67** ( $\mu = 40$ ) Similar to the 63 material. Has greater saturation flux density and very good temperature stability. For high 'Q' inductors, (10 MHz to 80 MHz). Wideband transformers to 200 MHz. Toroids only.

**MATERIAL 68** ( $\mu = 20$ ) High volume resistivity and excellent temperature stability. For high Q' resonant circuits 80 MHz to 180 MHz. For high frequency inductors. Toroids only.

**MATERIAL 73** ( $\mu = 2500$ ) **Primarily a ferrite bead material. Has good attenuation properties from 1 MHz through 50 MHz. Available in beads and some broadband multi-aperture cores.**

**MATERIAL 77** ( $\mu = 2000$ ) Has high saturation flux density at high temperature. Low core loss in the 1 KHz to 1 MHz range. For low level power conversion and wideband transformers. Extensively used for frequency attenuation from 0.5 MHz to 50 MHz. Available in toroids, pot cores, E-cores, beads, broadband balun cores and sleeves. An upgrade of the former 72 material. The 72 material is still available in some sizes, but the 77 material should be used in all new design.

**MATERIAL 'F'** ( $\mu = 3000$ ) High saturation flux density at high temperature. For power conversion transformers. Good frequency attenuation 0.5 MHz to 50 MHz. Toroids only.

**MATERIAL 'J'/75** ( $\mu = 5000$ ) Low volume resistivity and low core loss from 1 KHz to 1 MHz. Used for pulse transformers and low level wideband transformers. Excellent frequency attenuation from 0.5 MHz to 20 MHz. Available in toroidal form and ferrite beads as standard off the shelf in stock. Also available in pot cores, RM cores, E & U cores as custom ordered parts with lead time for delivery.

**MATERIAL K** ( $\mu = 290$ ). Used primarily in transmission line transformers from 1.0 MHz to 50 MHz range. Available from stock in a few sizes in toroidal form only.

**MATERIAL W** ( $\mu = 10,000$ ). High permeability material used for frequency attenuation from 100 KHz to 1 MHz in EMI/RFI filters. Also used in broadband transformers. Available in toroidal form from stock. As custom ordered parts for pot cores, EP cores, RM cores.

**MATERIAL H** ( $\mu = 15,000$ ). High permeability material used for frequency attenuation under 200 KHz. Also used in broadband transformers. Available in toroidal form only.