

Shield and Toroidal Ferrite Cores (RH&T Series)

Description :

Shield cores (RH series) and Toroidal cores (T series) are the EMI suppression cores with ring shape. RH cores are usually used for the cable assembly with plastic injection molding. The smaller RH cores are usually used to pass through beads of other elements or to be inductors by passing through wire. The T cores are mainly used for common mode or differential mode filter to suppression EMI. If the design need higher impedance, increase the wire turns through the core is a fast and easy solution.



Applications :

- Suppress high frequency noise from cables to compliance with FCC, VDE and VCCI.
- Suitable for various power / signal cables inside or outside the equipments.
- Widespread use for electric equipments like NBs, PCs, monitors, printers, digital cameras, power supplies, DVD players, fax machines, medical equipments, internet wire, and etc.



Core Dimension List :

Part Number		OD x ID x HT (mm)	
RH 1.8x0.8x2	T 4.4x2.8x1.2	T 12x5.5x3	RH 17.5x10.7x28.5
RH 1.8x0.8x4	T 4.4x2.8x2.5	RH 12x5.6x20	T 18x10x4
T 1.93x1.09x1.52	RH 4.5x2.5x5	RH 12x5.6x25	T 18x10x6
RH 1.93x1.09x3.81	RH 4.5x2.5x7	RH 12x7.3x15	T 20x10x10
RH 3x1x3	RH 4.5x2.5x10	T 12.7x7.9x5	T 21x13.2x6.4
RH 3.5x0.8x3	RH 4.6x1.85x6	T 12.7x7.9x6.35	RH 22x13.8x28
RH 3.5x0.8x4.7	RH 6x3x10	RH 14x8x25	T 22.5x13.8x6.4
RH 3.5x0.8x9	RH 6x4x6.5	RH 14x8x28.5	T 22.5x13.8x8
T 3.5x1.2x3	RH 7.35x5.1x10	T 14x9x5.5	T 25x15x8
RH 3.5x1.2x4	T 7.5*2.4*5	RH 14x9x15	T 25x15x12
RH 3.5x1.2x5	RH 7.5x2.4x7.5	RH 14.2x6.35x28.5	T 26x13x15
RH 3.5x1.2x6	T 8x4x3.5	RH 14.2x8x28.5	T 26x13x21.3
RH 3.5x1.2x9.6	T 8x4x4	T 15.2x10.5x5	RH 26x13x28.5
RH 3.5x1.5x5	T 9.5x4.8x3	T 15.2x10.5x8	T 28x15.6x7.5
T 3.5x1.7x1.5	T 9.5x4.8x4	RH 15.5x7x28.5	T 28x15.6x13
T 4x1.5x3	RH 9.5x4.8x10	RH 16x9x17	T 28x15.6x20
RH 4x1.5x4	RH 9.5x4.8x12.7	RH 16x9x28	T 31x19x7.5
T 4x2x2	RH 9.5x4.8x15	T 16x10x8	T 31x19x9
T 4x2x3	RH 9.5x4.8x20	T 17.5x9.5x7	T 31x19x16
RH 4x2x5	RH 10x2x25	T 17.5x9.5x11	T 36x23x15
RH 4x2x10	RH 10x6x12.5	T 17.5x9.5x13	T 61.4x36x12.8
RH 4x2x15	RH 10.5x5.5x15	T 17.5x9.5x17	
T 4.1x2x3	RH 10.5x5.5x20	RH 17.5x9.5x28.5	

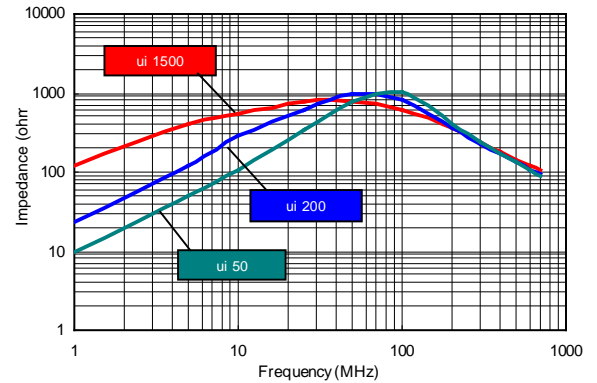
Note : We're welcome your inquiry if your dimension is not listed.

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Reference Information :

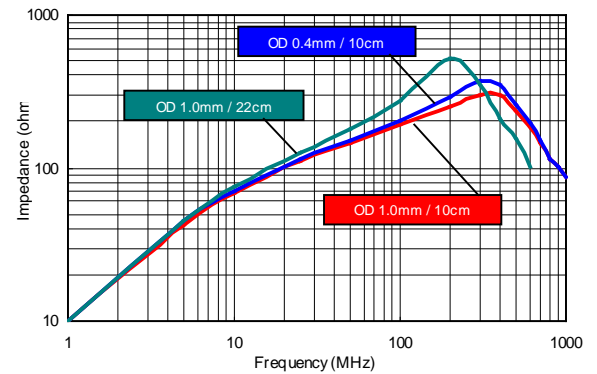
1. Material & Impedance

We have many different materials can be choose but the most popular material is L92 (ui 1500) and L52 (ui 650). High ui core can get higher impedance in lower frequency but will not increase nonstop. For example, ui 1500 core (the red line) is higher than other two cores at 10MHz, but ui 50 core (the green line) get the highest impedance at 100MHz. As the figure, higher ui core with more average impedance in wide frequency range but not as high as the lower ui core at 100MHz. You can choose the material depends on your application.



2. Test wire condition & Impedance

As the figure, the same core will get different impedance reading with different test wire. Our standard test wire is a diameter 1.0mm with 10cm length wire through the core to compare the impedance for reference. For actually application, the wire length and diameter is different and impedance reading will not the same.



3. Wire Turns & Impedance

If the impedance is not enough, consider to increase the wire turns, change a longer core or increase the core quantity is the solution. As the figure, increase wire turns is much better than increase the core length and more economical. But sometime it difficult to increase turns because the wire diameter is too big or the appearance problem. In such a case, increase the core length or change a bigger core is another solution.

