

# EMI Cores

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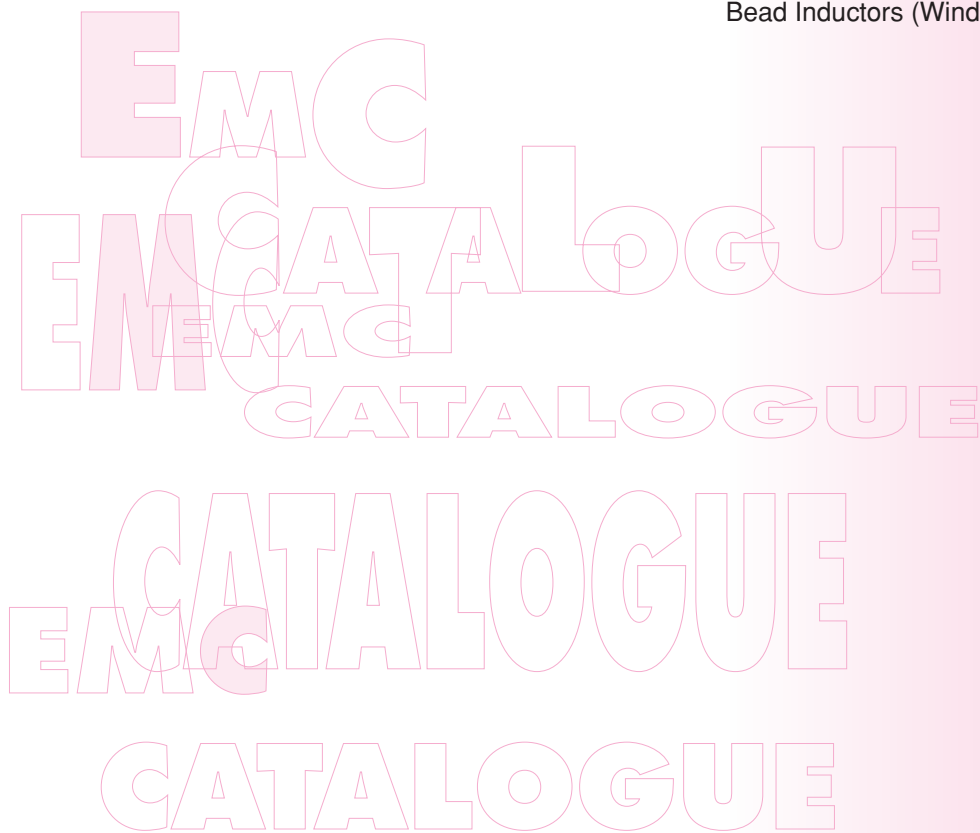
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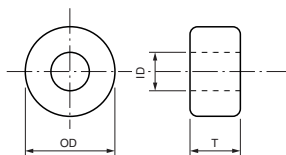
# Toroidal Cores (Bare Type)



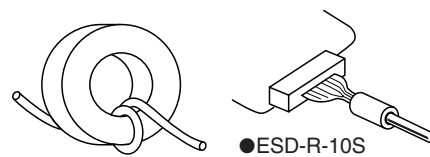
| Diameter | Model       | Dimensions (mm) |      |      | Frequency range (MHz) |
|----------|-------------|-----------------|------|------|-----------------------|
|          |             | OD              | ID   | T    |                       |
| ø10      | ESD-R-10D   | 9.5             | 5.0  | 10.0 | Up to 300             |
|          | ESD-R-10S   | 10.5            | 5.5  | 20.0 | Up to 300             |
|          | ESD-R-12A   | 12.0            | 7.0  | 15.0 | Up to 100             |
|          | ESD-R-12C   | 12.0            | 7.0  | 15.0 | Up to 300             |
| ø12      | ESD-R-12CP  | 11.8            | 7.3  | 15.0 | Up to 300             |
|          | ESD-R-12E   | 11.8            | 7.3  | 8.0  | Up to 300             |
|          | ESD-R-12F   | 12.0            | 8.5  | 15.0 | Up to 300             |
|          | ESD-R-12F-7 | 11.9            | 8.4  | 15.0 | Up to 300             |
|          | ESD-R-12S   | 12.0            | 7.0  | 5.5  | Up to 300             |
|          | ESD-R-14C   | 14.0            | 7.0  | 3.0  | Up to 300             |
| ø14      | ESD-R-14S   | 14.3            | 6.3  | 28.5 | Up to 300             |
|          | ESD-R-15C1  | 15.0            | 10.5 | 12.0 | Up to 300             |
| ø15      | ESD-R-16    | 15.9            | 11.6 | 8.4  | Up to 100             |
|          | ESD-R-16C   | 16.0            | 9.0  | 17.0 | Up to 300             |
| ø17      | ESD-R-17S   | 17.5            | 9.5  | 28.5 | Up to 300             |
|          | ESD-R-19S   | 18.5            | 10.0 | 10.0 | Up to 100             |
| ø19      | ESD-R-19SD  | 18.5            | 10.0 | 10.0 | Up to 300             |
|          | ESD-R-25SD  | 25.0            | 15.0 | 12.0 | Up to 300             |
| ø25      | ESD-R-25S   | 25.0            | 15.0 | 12.0 | Up to 100             |
|          | ESD-R-26S   | 26.0            | 13.0 | 28.5 | Up to 300             |
| ø28      | ESD-R-28C   | 28.0            | 16.0 | 13.0 | Up to 300             |
| ø31      | ESD-R-31C   | 31.0            | 19.0 | 8.0  | Up to 300             |
| ø38      | ESD-R-38D   | 38.1            | 19.0 | 12.7 | Up to 100             |

### Shape and Dimensions

● ESD-R Series



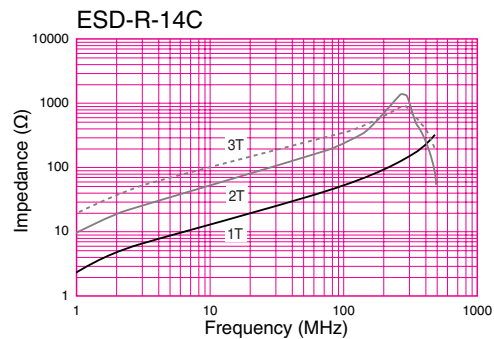
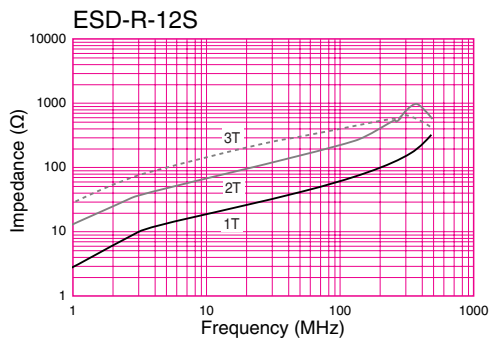
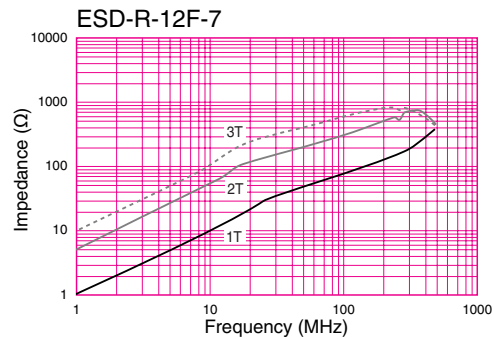
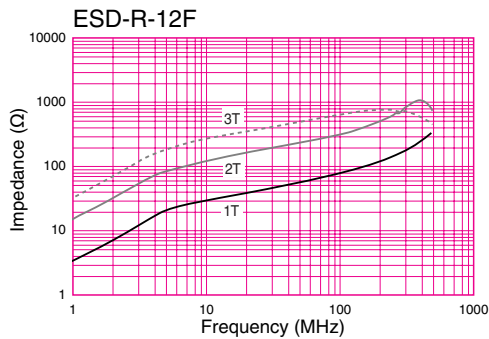
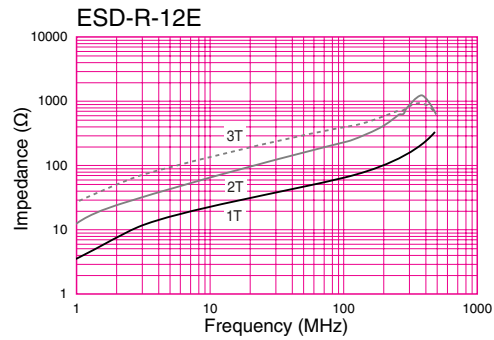
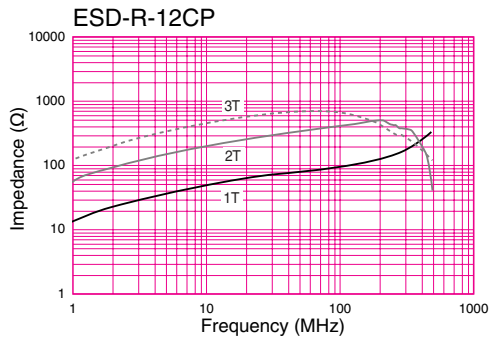
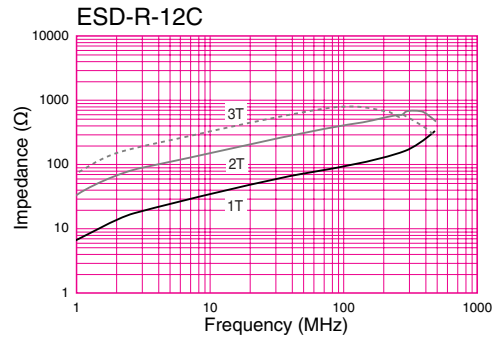
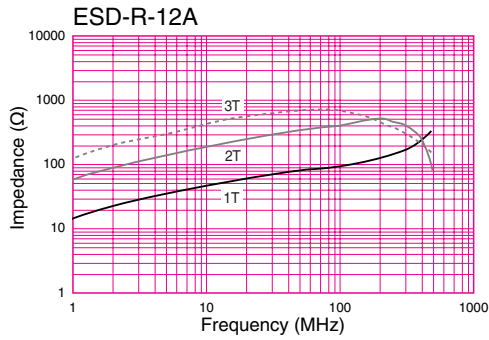
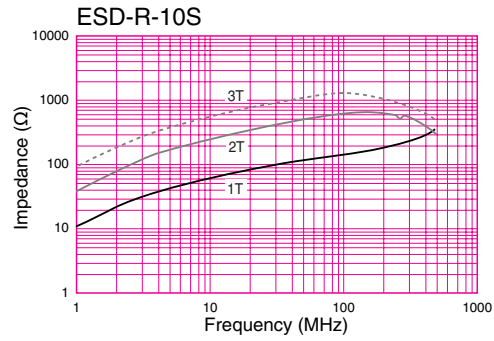
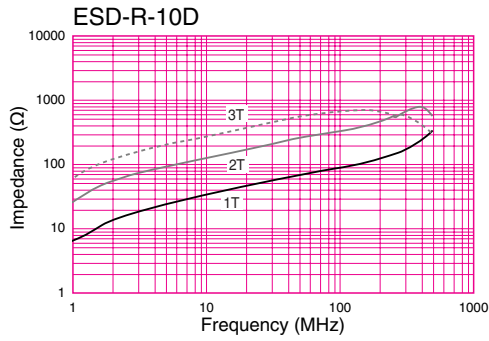
### Installation Example



- ESD-R-10S
- ESD-R-14S
- ESD-R-17S
- ESD-R-26S

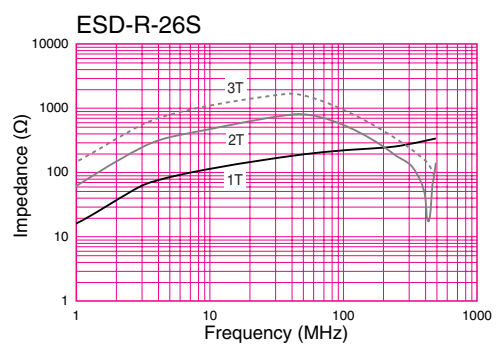
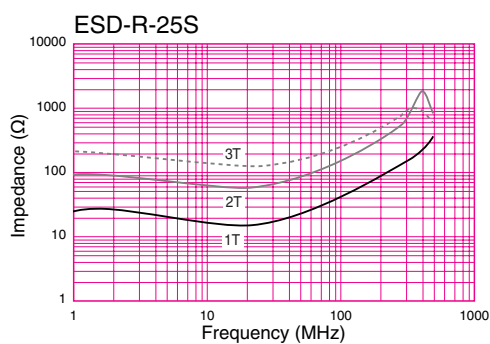
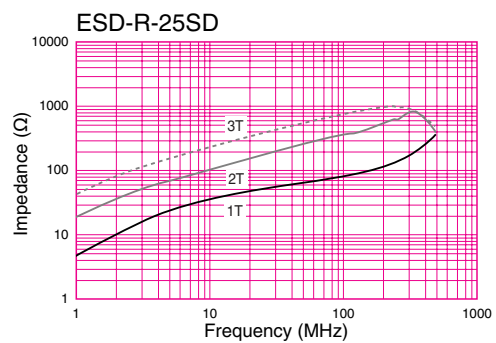
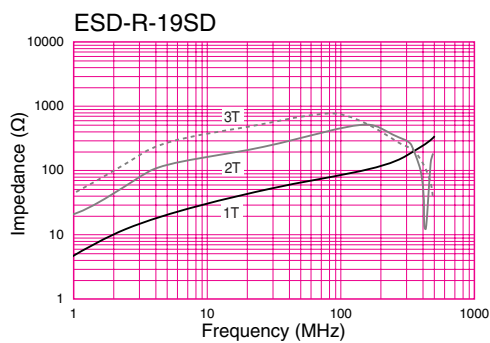
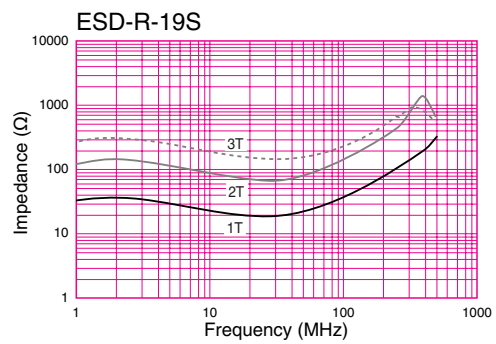
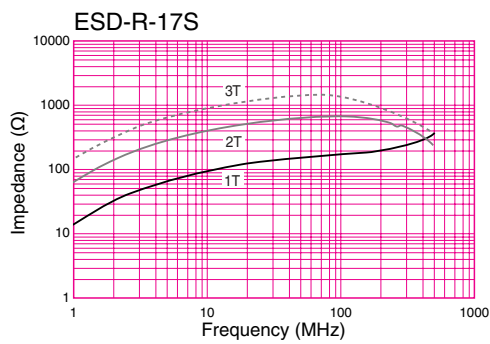
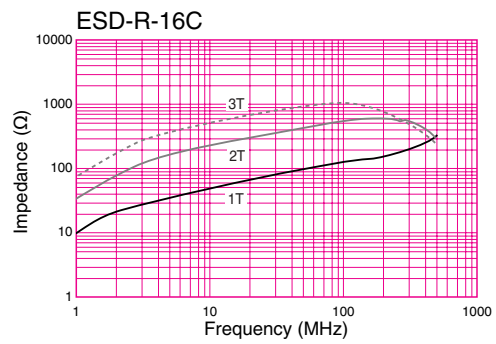
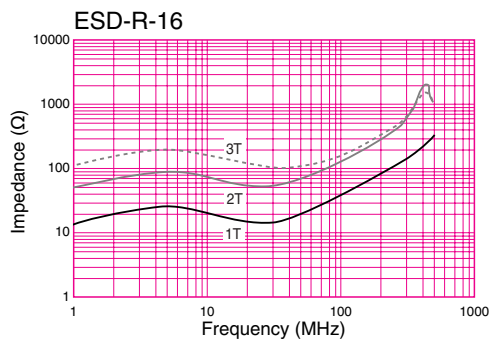
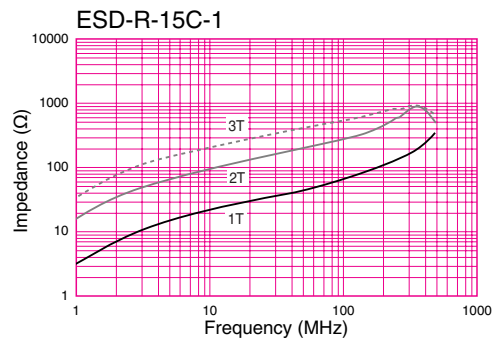
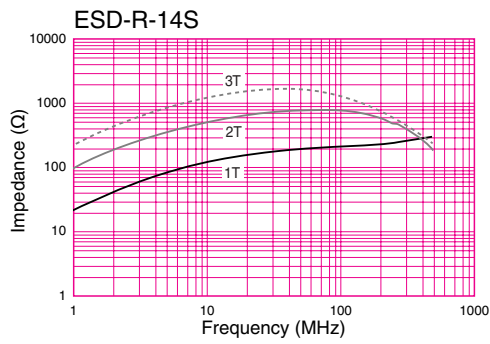
Ring Type

Impedance vs. Frequency



Ring Type

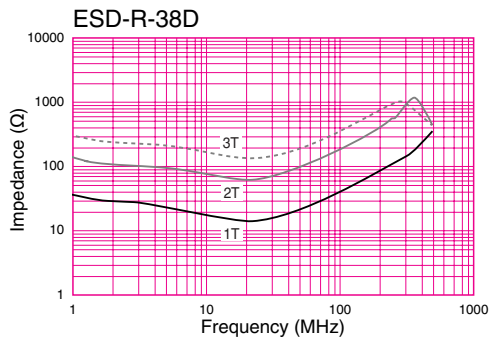
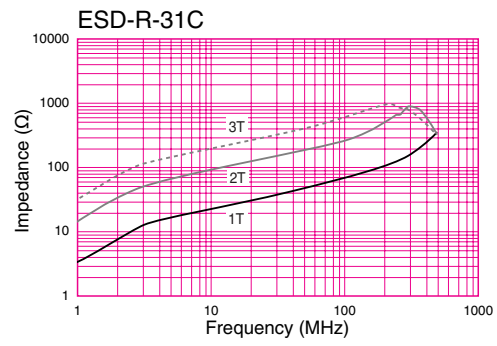
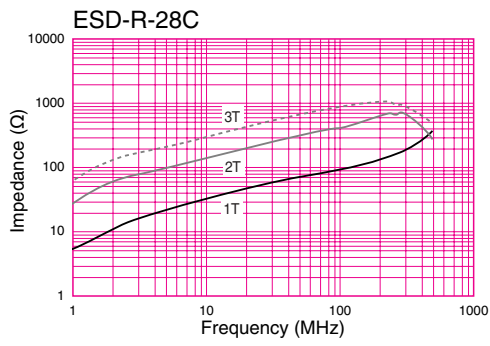
Impedance vs. Frequency



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EMI Cores

Ring Type

Impedance vs. Frequency



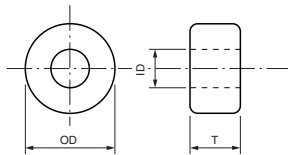
# Toroidal Cores (Coated Type)



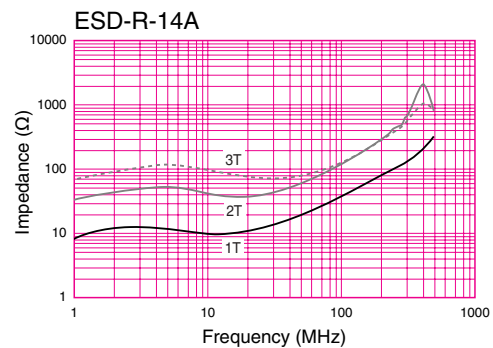
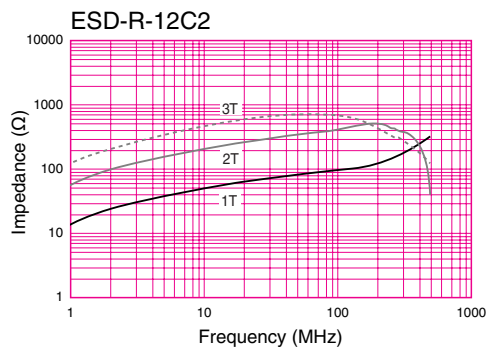
| Diameter | Model              | Dimensions (mm) |      |      | Frequency range | Color of coating |
|----------|--------------------|-----------------|------|------|-----------------|------------------|
|          |                    | OD              | ID   | T    |                 |                  |
| ø12      | <b>ESD-R-12C2</b>  | 12.0            | 7.3  | 15.3 | Up to 300       | Blue             |
| ø14      | <b>ESD-R-14A</b>   | 15.0            | 6.2  | 3.5  | Up to 100       | Green            |
|          | <b>ESD-R-14C2</b>  | 14.0            | 7.0  | 3.0  | Up to 300       | Blue             |
| ø15      | <b>ESD-R-15C</b>   | 15.2            | 10.5 | 12.5 | Up to 300       | Blue             |
| ø16      | <b>ESD-R-16C1</b>  | 16.0            | 8.5  | 17.0 | Up to 300       | Blue             |
| ø17      | <b>ESD-R-17S1</b>  | 17.7            | 9.4  | 28.8 | Up to 300       | Blue             |
| ø19      | <b>ESD-R-19E-1</b> | 19.0            | 10.7 | 5.3  | Up to 300       | Blue             |
| ø25      | <b>ESD-R-25D-8</b> | 25.0            | 15.0 | 8.0  | Up to 300       | Blue             |
|          | <b>ESD-R-25L-A</b> | 25.3            | 15.1 | 12.1 | Up to 300       | Blue             |
| ø31      | <b>ESD-R-31C-1</b> | 32.0            | 19.0 | 9.0  | Up to 300       | Green            |

## Shape and Dimensions

●ESD-R Series

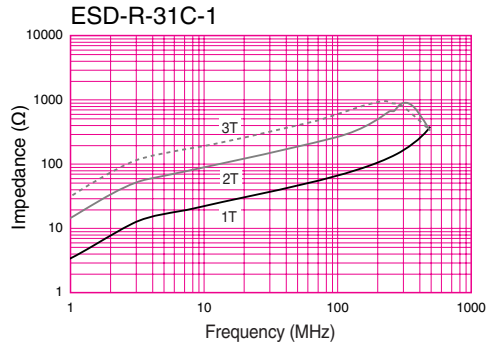
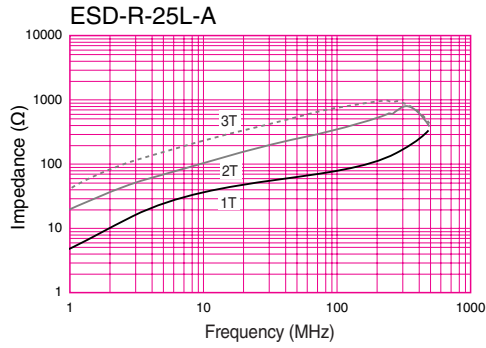
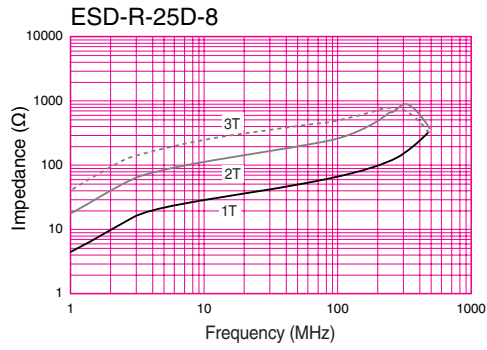
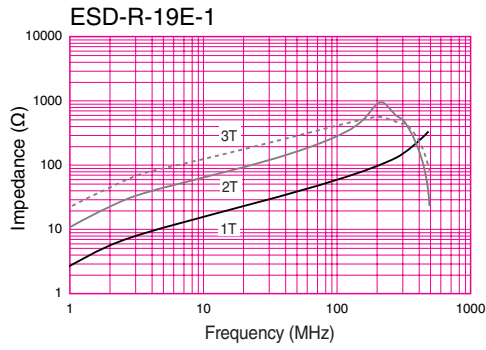
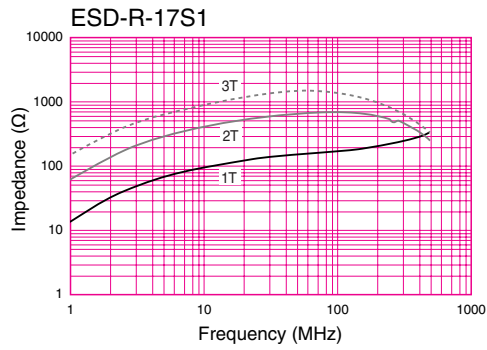
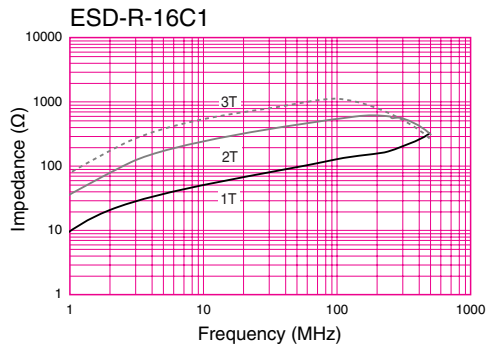
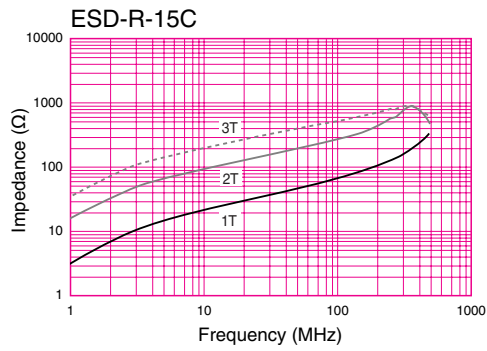
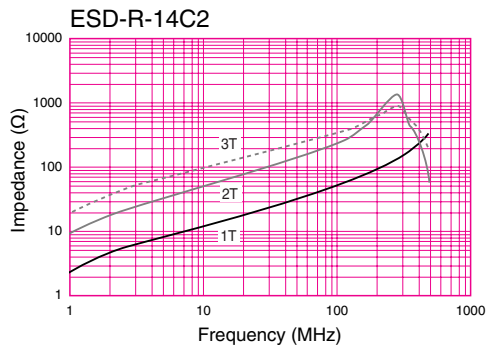


## Impedance vs. Frequency



Ring Type

Impedance vs. Frequency



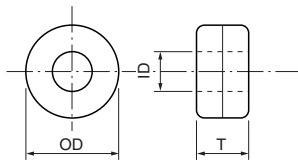
# Toroidal Cores with Case



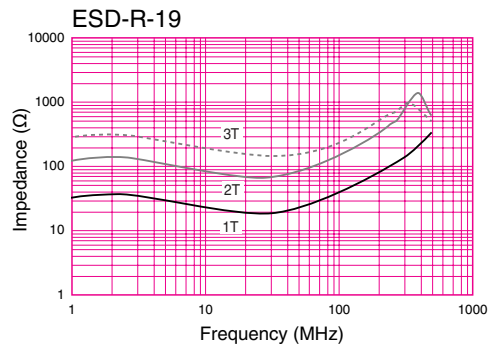
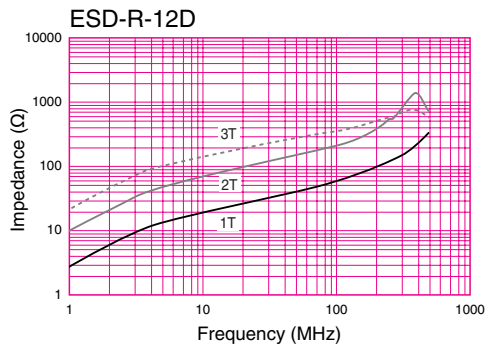
| Model       | Dimensions (mm) |      |      | Frequency range (MHz) | Remarks           | Color of case |
|-------------|-----------------|------|------|-----------------------|-------------------|---------------|
|             | OD              | ID   | T    |                       |                   |               |
| ESD-R-12D   | 12.9            | 6.0  | 6.4  | Up to 300             |                   | black         |
| ESD-R-19    | 19.0            | 9.0  | 11.0 | Up to 100             |                   | white         |
| ESD-R-19D   | 19.0            | 9.0  | 11.0 | Up to 300             |                   | black         |
| ESD-R-25    | 26.0            | 14.0 | 15.0 | Up to 100             |                   | white         |
| ESD-R-25D   | 26.0            | 14.0 | 15.0 | Up to 300             |                   | black         |
| ESD-R-25L-C | 27.5            | 12.0 | 17.0 | Up to 300             |                   | white         |
| ESD-R-38    | 39.0            | 17.5 | 14.0 | Up to 100             |                   | white         |
| ESD-R-38C-1 | 39.0            | 17.5 | 14.0 | Up to 300             | with tape (black) | white         |
| ESD-R-38E-1 | 39.0            | 17.5 | 14.0 | Up to 300             | with tape (green) | white         |
| ESD-R-47    | 48.0            | 25.5 | 16.0 | Up to 100             |                   | white         |
| ESD-R-47D-1 | 48.0            | 25.5 | 16.0 | Up to 300             | with tape (black) | white         |
| ESD-R-47E-1 | 48.0            | 25.5 | 16.0 | Up to 300             | with tape (green) | white         |
| ESD-R-57    | 61.0            | 32.4 | 24.0 | Up to 100             |                   | white         |
| ESD-R-57E-1 | 61.0            | 32.4 | 24.0 | Up to 300             | with tape (green) | white         |

## Shape and Dimensions

● ESD-R Series



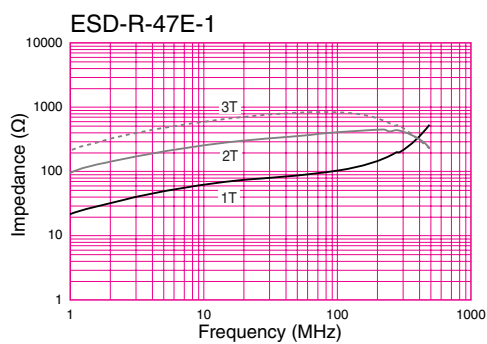
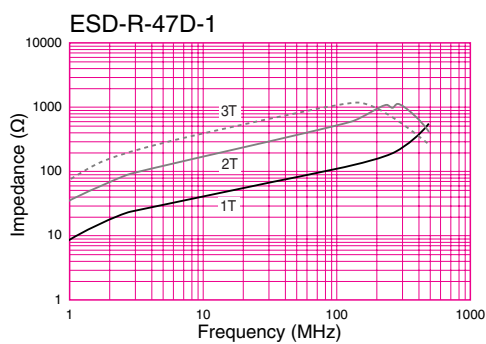
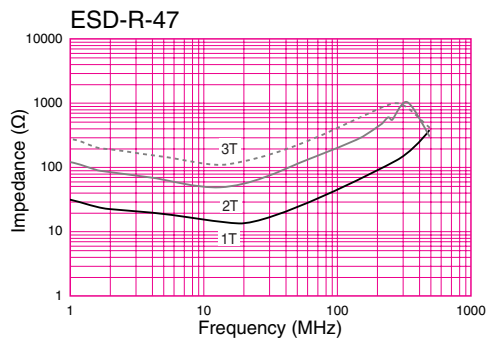
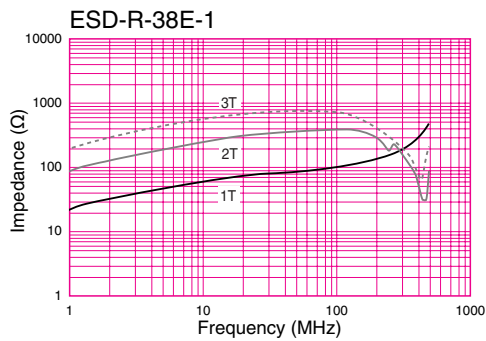
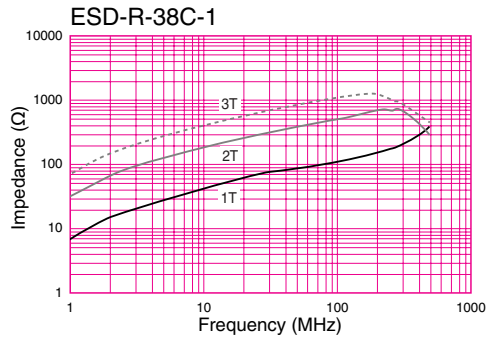
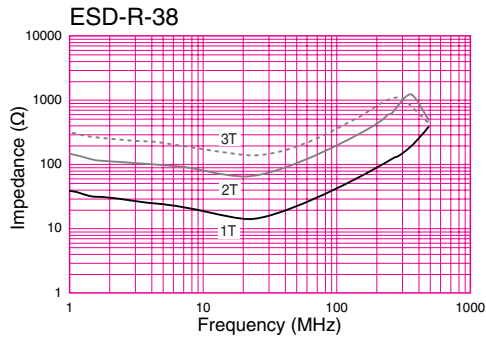
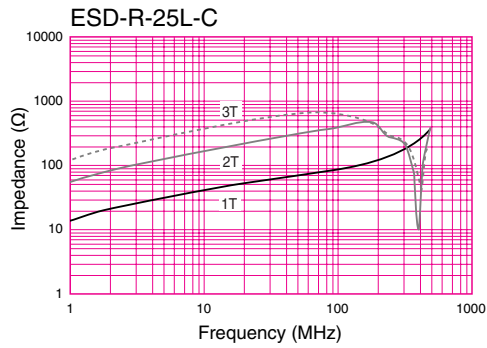
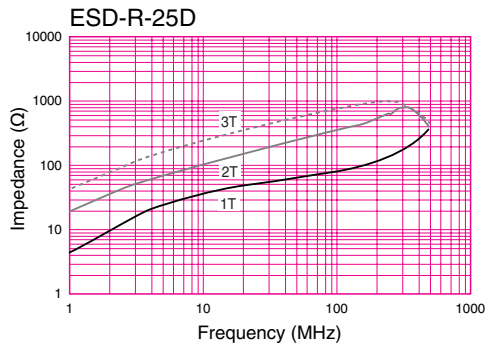
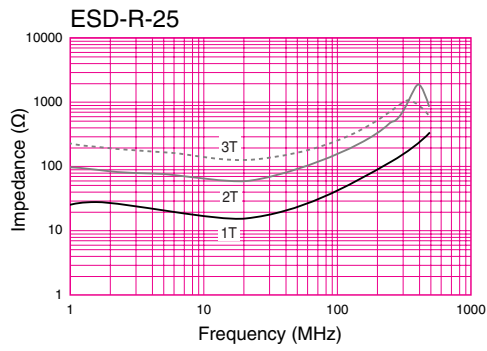
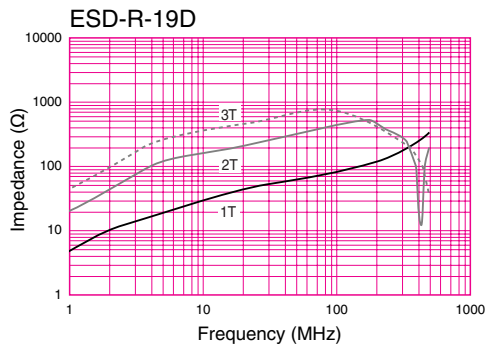
## Impedance vs. Frequency





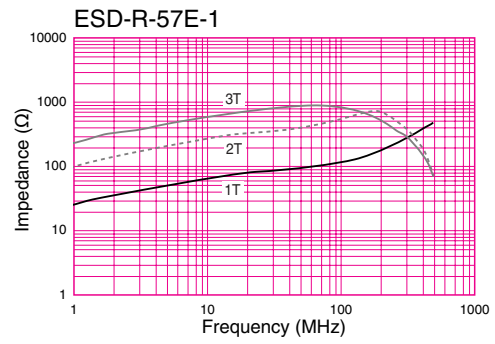
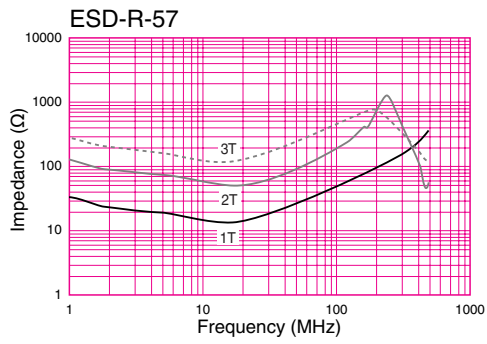
Ring Type

Impedance vs. Frequency



Ring Type

Impedance vs. Frequency



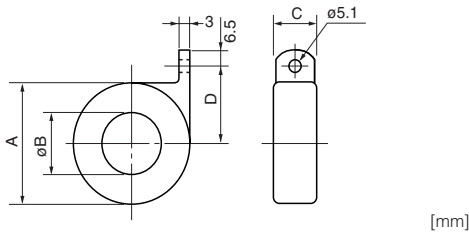
# Toroidal Cores with Snail-shaped Case



| Model      | Dimensions (mm) |      |      |      | Frequency range (MHz) | Color of case |
|------------|-----------------|------|------|------|-----------------------|---------------|
|            | A               | B    | C    | D    |                       |               |
| ESD-R-19B  | 21.5            | 8.8  | 13.0 | 18.5 | Up to 100             | white         |
| ESD-R-19DB | 21.5            | 8.8  | 13.0 | 18.5 | Up to 300             | black         |
| ESD-R-25B  | 29.3            | 13.9 | 15.0 | 23.0 | Up to 100             | white         |
| ESD-R-25DB | 29.3            | 13.9 | 15.0 | 23.0 | Up to 300             | black         |
| ESD-R-38B  | 42.5            | 17.9 | 16.0 | 28.0 | Up to 100             | white         |
| ESD-R-38DB | 42.5            | 17.9 | 16.0 | 28.0 | Up to 300             | black         |
| ESD-R-47B  | 51.5            | 25.5 | 17.5 | 34.0 | Up to 100             | white         |
| ESD-R-47DB | 51.5            | 25.5 | 17.5 | 34.0 | Up to 300             | black         |

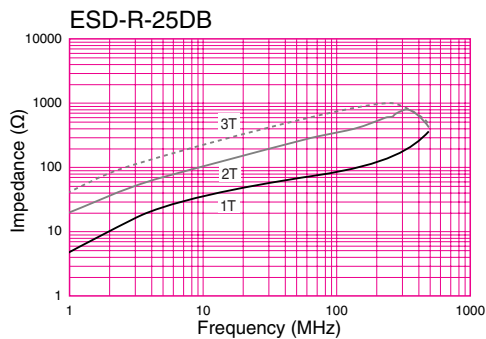
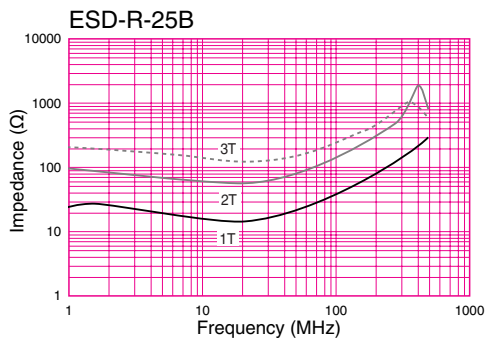
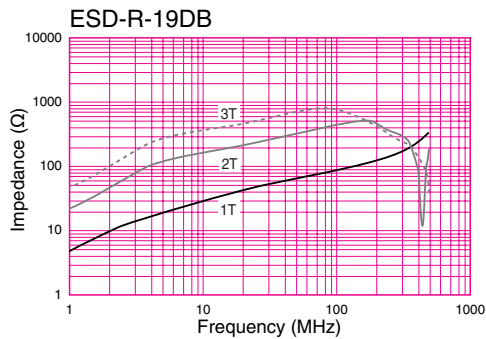
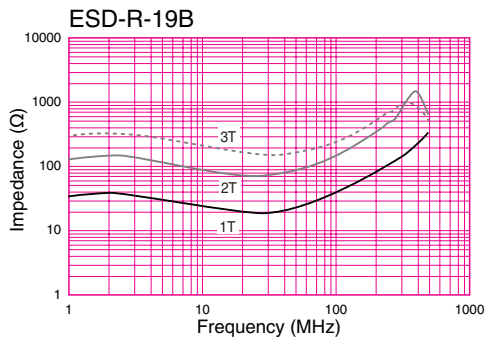
## Shape and Dimensions

● ESD-R-B Series



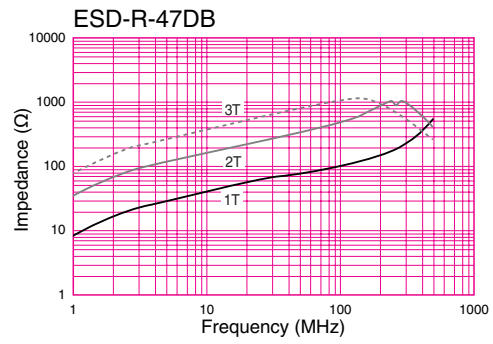
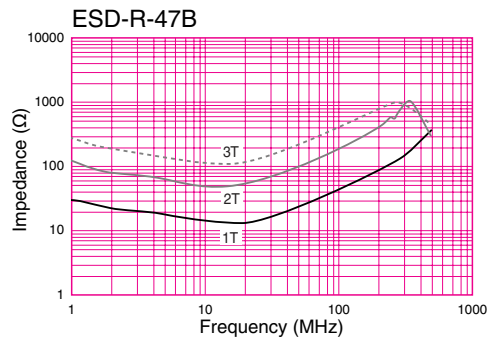
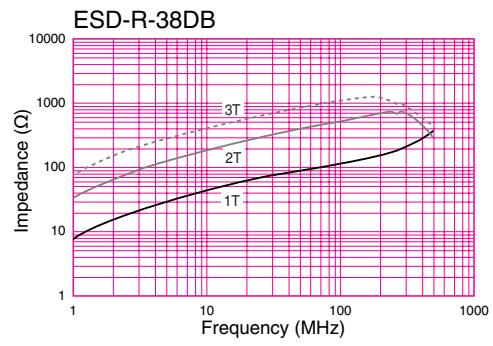
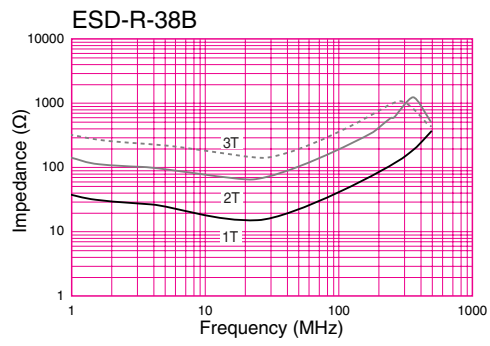
EMI Cores

## Impedance vs. Frequency



Ring Type

Impedance vs. Frequency



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EMI Cores

# Hinged-clamp Cores for Round Cables

## ESD-SR Series



●ESD-SR-S Series

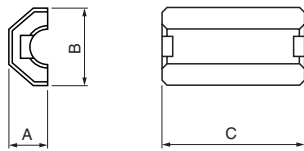
| Model       | Dimensions (mm) |      |      | Usable cables     | Frequency range (MHz) |
|-------------|-----------------|------|------|-------------------|-----------------------|
|             | A               | B    | C    |                   |                       |
| ESD-SR-S10S | 4.5             | 10.0 | 15.0 | Up to $\phi 6.0$  | Up to 300             |
| ESD-SR-10S  | 6.0             | 12.0 | 13.6 | Up to $\phi 6.0$  | Up to 300             |
| ESD-SR-12S  | 6.0             | 12.0 | 25.3 | Up to $\phi 6.0$  | Up to 300             |
| ESD-SR-15S  | 7.5             | 15.0 | 28.3 | Up to $\phi 7.0$  | Up to 300             |
| ESD-SR-25S  | 12.5            | 25.0 | 23.0 | Up to $\phi 13.0$ | Up to 300             |

●ESD-SR Series

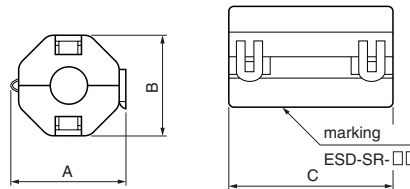
| Model       | Dimensions (mm) |        |        | Usable cables     | Frequency range (MHz) | Color of case |
|-------------|-----------------|--------|--------|-------------------|-----------------------|---------------|
|             | A max.          | B max. | C max. |                   |                       |               |
| ESD-SR-S10  | 15.5            | 13.0   | 18.5   | Up to $\phi 6.0$  | Up to 300             | Black         |
| ESD-SR-10   | 17.0            | 17.0   | 18.0   | Up to $\phi 6.0$  | Up to 300             | Black         |
| ESD-SR-12   | 19.0            | 19.0   | 30.0   | Up to $\phi 6.0$  | Up to 300             | Black         |
| ESD-SR-12-1 | 19.0            | 19.0   | 30.0   | Up to $\phi 6.0$  | Up to 300             | Beige         |
| ESD-SR-15   | 22.5            | 22.5   | 33.5   | Up to $\phi 7.0$  | Up to 300             | Black         |
| ESD-SR-15-1 | 22.5            | 22.5   | 33.5   | Up to $\phi 7.0$  | Up to 300             | Beige         |
| ESD-SR-S16  | 23.0            | 20.0   | 20.5   | Up to $\phi 8.0$  | Up to 300             | Black         |
| ESD-SR-16   | 22.5            | 21.5   | 33.0   | Up to $\phi 9.0$  | Up to 300             | Black         |
| ESD-SR-S25  | 33.0            | 29.0   | 15.5   | Up to $\phi 15.0$ | Up to 300             | Black         |
| ESD-SR-25   | 33.0            | 33.0   | 33.5   | Up to $\phi 13.0$ | Up to 300             | Black         |
| ESD-SR-25-1 | 33.0            | 33.0   | 33.5   | Up to $\phi 13.0$ | Up to 300             | Beige         |

Shape and Dimensions

●ESD-SR-S Series (without case)

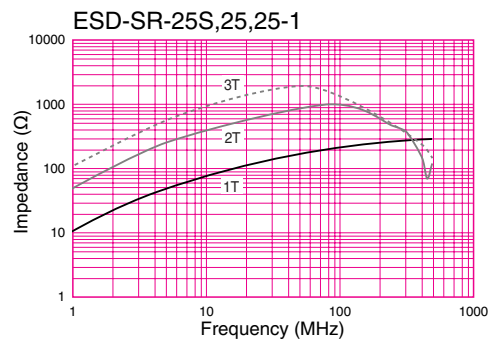
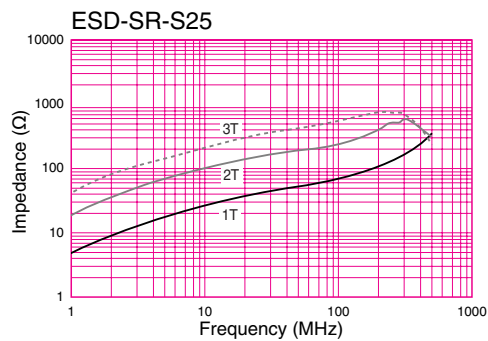
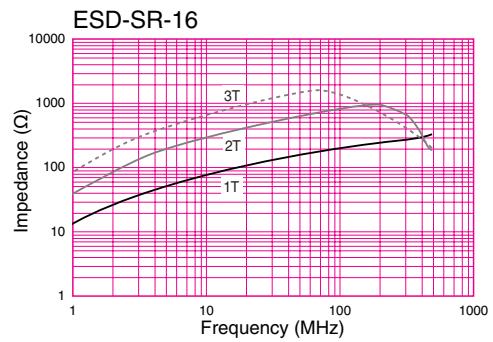
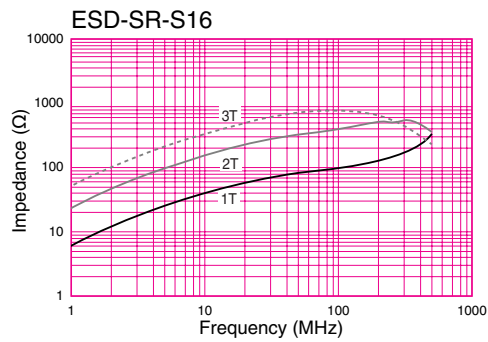
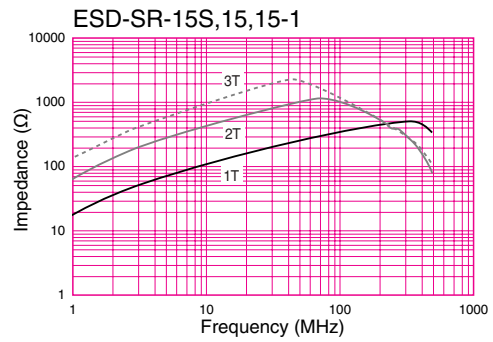
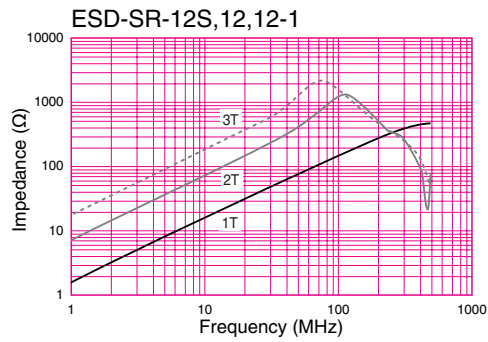
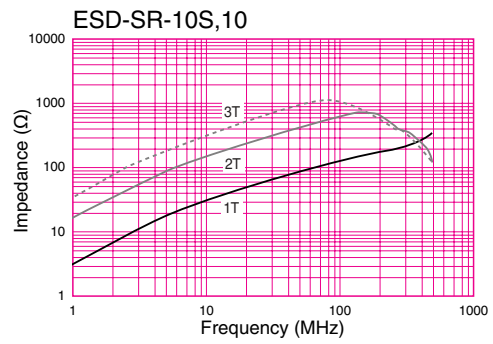
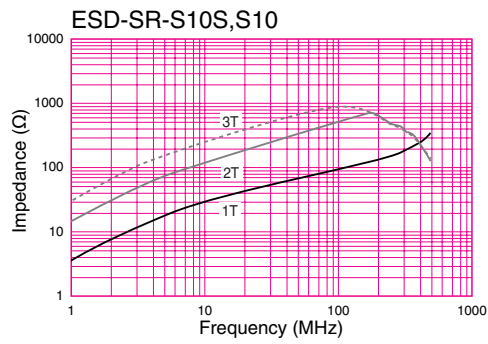


●ESD-SR Series



Clamp Type

Impedance vs. Frequency



5

EMI Cores

# Hinged-, Non-hinged Type Cores for Flat Cables



●ESD-FPL Series

| Model         | Dimensions (mm) |      |      |      |     | Usable cables | Remarks |
|---------------|-----------------|------|------|------|-----|---------------|---------|
|               | a               | b    | c    | d    | e   |               |         |
| ESD-FPL-7     | 28.0            | 23.5 | 7.7  | 6.8  | 1.5 | 16-core       |         |
| ESD-FPL-13    | 23.8            | 18.8 | 6.3  | 15.0 | 1.1 | 13-core       |         |
| ESD-FPL-15    | 28.0            | 23.5 | 7.7  | 14.6 | 1.5 | 16-core       |         |
| ESD-FPL-16    | 37.0            | 25.4 | 12.0 | 12.7 | 1.9 | 16-core       |         |
| ESD-FPL-20-12 | 33.2            | 27.0 | 8.0  | 12.0 | 1.5 | 20-core       |         |
| ESD-FPL-20-15 | 33.2            | 27.0 | 8.0  | 15.0 | 1.5 | 20-core       |         |
| ESD-FPL-26    | 41.2            | 35.0 | 7.7  | 15.0 | 1.5 | 26-core       |         |
| ESD-FPL-34    | 60.0            | 48.5 | 12.0 | 12.7 | 2.2 | 34-core       |         |
| ESD-FPL-50    | 80.0            | 68.6 | 12.0 | 12.7 | 1.9 | 50-core       |         |

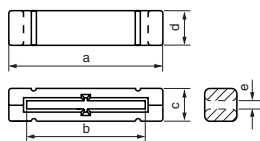
●ESD-FPD Series

| Model        | Dimensions (mm) |      |      |      |     | Usable cables | Remarks               |
|--------------|-----------------|------|------|------|-----|---------------|-----------------------|
|              | a               | b    | c    | d    | e   |               |                       |
| ESD-FPD-16   | 37.0            | 25.4 | 10.0 | 12.7 | 2.6 | 16-core       | Stainless steel clamp |
| ESD-FPD-16-1 | 37.0            | 25.4 | 10.0 | 12.7 | 2.6 | 16-core       | Nylon clamp           |
| ESD-FPD-34   | 60.0            | 48.3 | 10.0 | 12.7 | 2.0 | 34-core       | Stainless steel clamp |
| ESD-FPD-34-1 | 60.0            | 48.3 | 10.0 | 12.7 | 2.0 | 34-core       | Nylon clamp           |
| ESD-FPD-40   | 68.0            | 56.0 | 10.0 | 12.7 | 2.0 | 40-core       | Stainless steel clamp |
| ESD-FPD-40-1 | 68.0            | 56.0 | 10.0 | 12.7 | 2.0 | 40-core       | Nylon clamp           |
| ESD-FPD-50   | 80.0            | 68.6 | 10.0 | 12.7 | 2.0 | 50-core       | Stainless steel clamp |
| ESD-FPD-50-1 | 80.0            | 68.6 | 10.0 | 12.7 | 2.0 | 50-core       |                       |

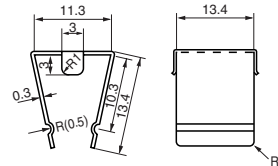
5  
EMI Cores

Shape and Dimensions

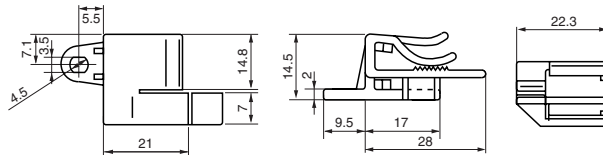
●ESD-FPD Series (Core)



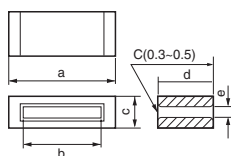
●ESD-FPD Series Clamp (Stainless steel)



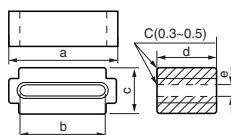
●ESD-FPD-1 Series Clamp FPD-CL-1 (Black nylon with cable stopper)



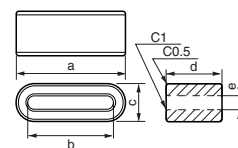
●ESD-FPL Series



●ESD-FPL-7, 15



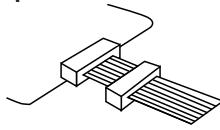
●ESD-FPL-26, 20-12, 20-15, 13



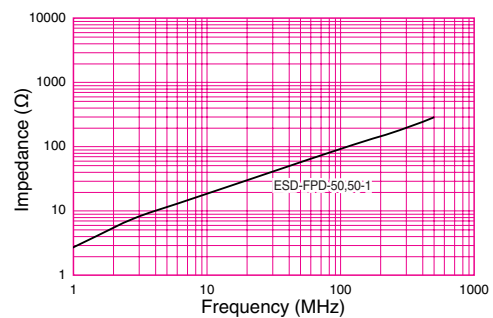
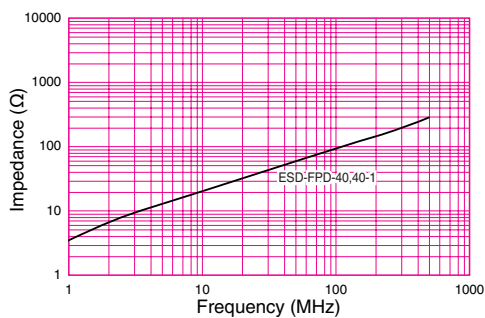
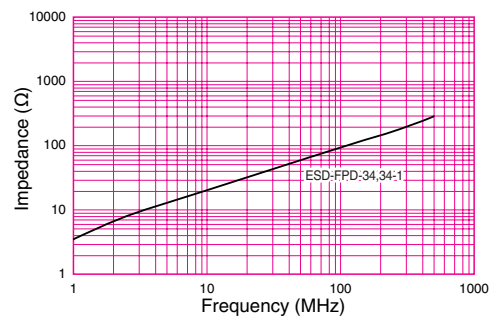
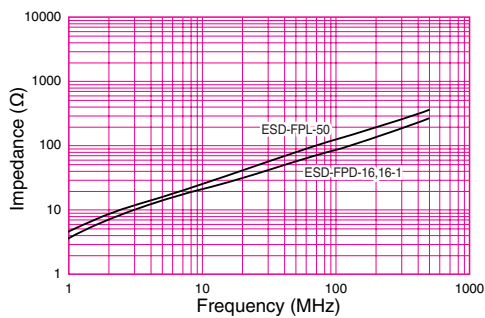
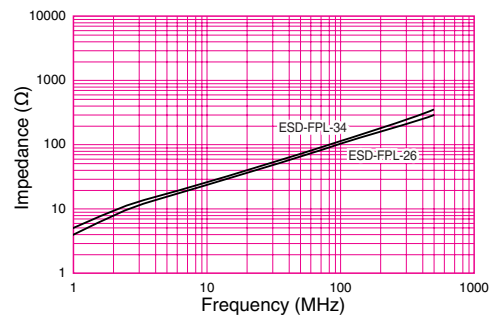
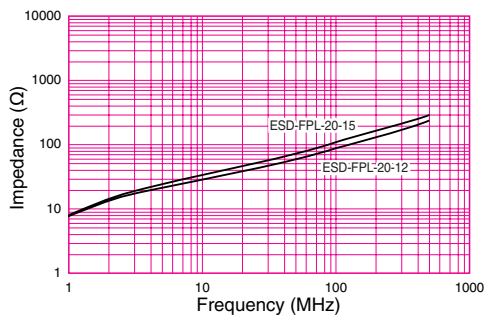
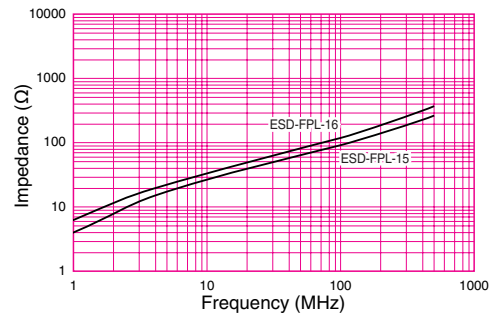
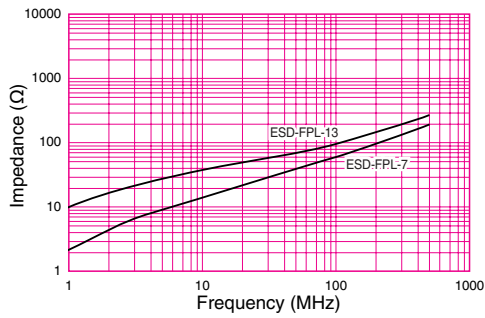
[mm]

Flat Type

Application Example



Impedance vs. Frequency





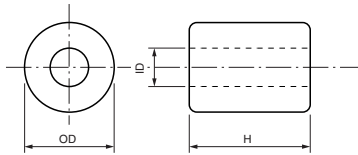
# Bead Cores



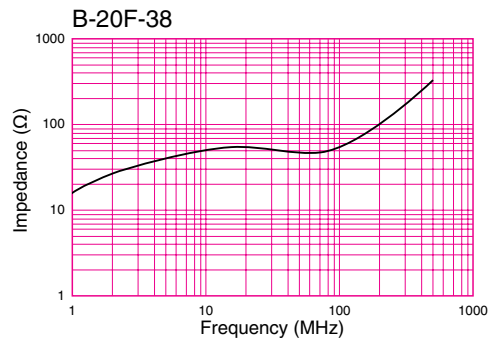
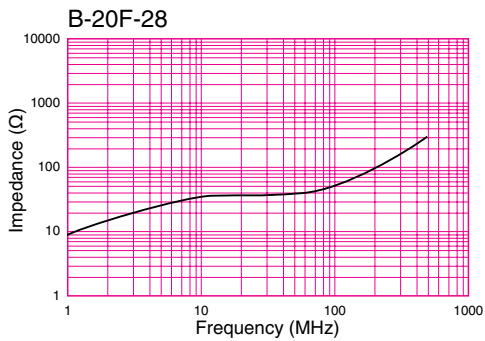
| Model            | Dimensions (mm) |     |     | Frequency range (MHz) | Remarks             |
|------------------|-----------------|-----|-----|-----------------------|---------------------|
|                  | OD              | ID  | H   |                       |                     |
| <b>B-20F-28</b>  | 2.8             | 1.3 | 3.0 | Up to 100             |                     |
| <b>B-20F-38</b>  | 3.8             | 1.5 | 4.3 | Up to 100             |                     |
| <b>B-20F-46</b>  | 4.6             | 1.5 | 4.3 | Up to 100             |                     |
| <b>B-20F-57</b>  | 5.7             | 1.5 | 8.0 | Up to 100             |                     |
| <b>B-20L-25</b>  | 2.5             | 1.0 | 1.2 | Up to 300             |                     |
| <b>B-20L-34</b>  | 3.4             | 0.8 | 4.4 | Up to 300             |                     |
| <b>B-20L-44</b>  | 4.4             | 1.6 | 7.0 | Up to 300             |                     |
| <b>B-20L-48B</b> | 4.8             | 2.4 | 4.8 | Up to 300             |                     |
| <b>B-20L-95B</b> | 9.7             | 4.8 | 4.2 | Up to 300             | (Insulation coated) |

## Shape and Dimensions

●Beads Cores

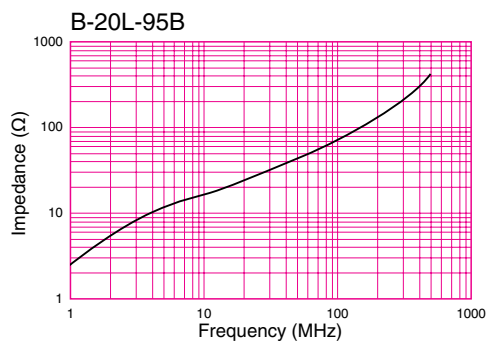
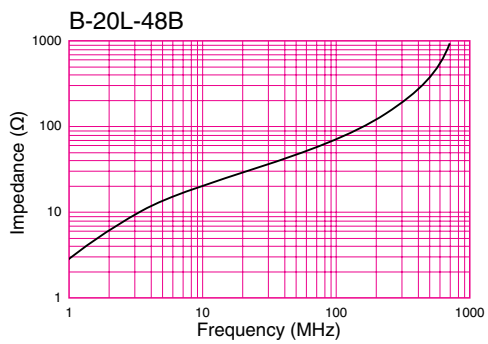
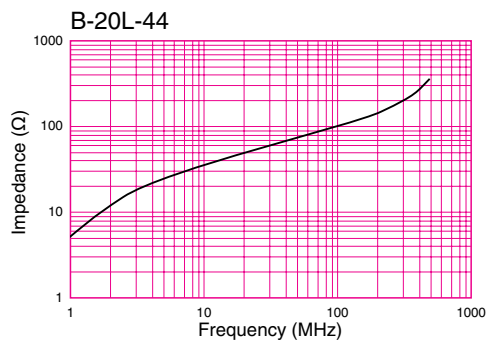
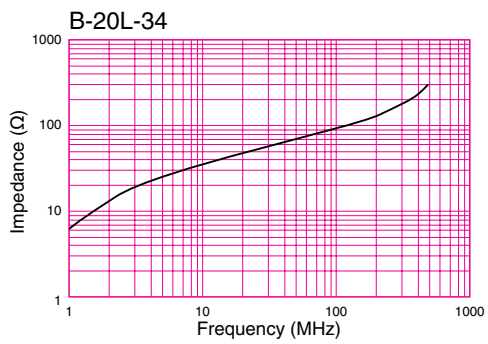
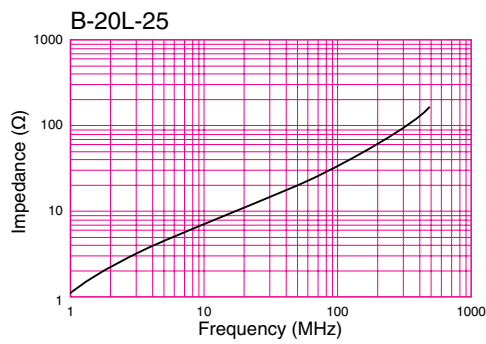
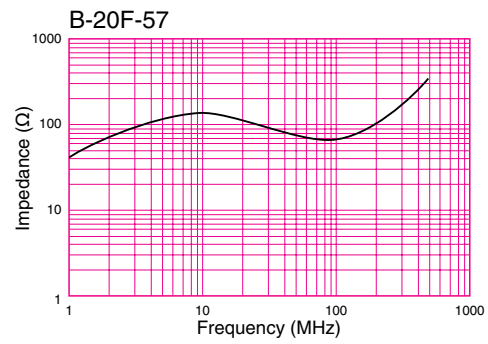
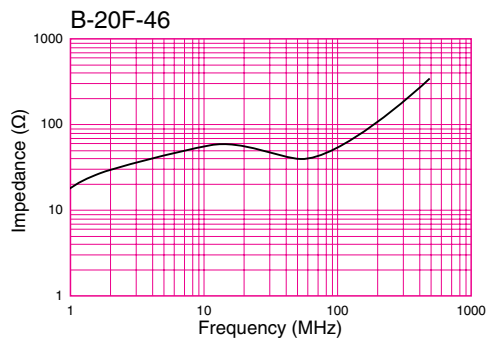


## Impedance vs. Frequency



Bead Type

Impedance vs. Frequency

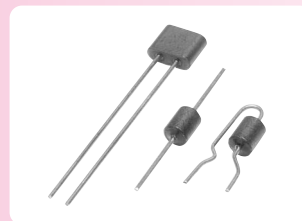


5

EMI Cores

## Lead Type

# Bead Inductors (Lead Type)



| Model              | Rated current<br>DC (A) | Impedance<br>( $\Omega$ ) | Operating temperature range<br>( $^{\circ}$ C) |
|--------------------|-------------------------|---------------------------|--|
| <b>B-01-Series</b> | 5                       | 2 (at 1 MHz)              | -20 to +70                                     |
| <b>B-02-Series</b> |                         | 4 (at 1 MHz)              |  |
| <b>B-03-Series</b> |                         | 5 (at 1 MHz)              |  |
| <b>B-06-Series</b> |                         | 40 (at 10 MHz)            |  |

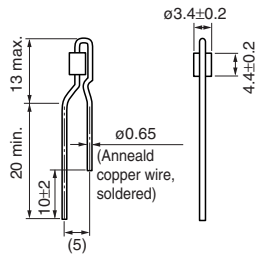
Note: Rated current values are not guaranteed by impedance levels; these values are permissible levels when the lead wire temperature rise is 20 $^{\circ}$ C.

| Model              | Shape                    | Packaging                  |
|--------------------|--------------------------|----------------------------|
| <b>B-01-R</b>      | Single-bead, radial-lead | Bulk type (100 pcs./bag)   |
| <b>B-01-RT</b>     | Single-bead, radial-lead | Tape type (2000 pcs./reel) |
| <b>B-01-RTF</b>    | Single-bead, radial-lead | Tape type (2000 pcs./box)  |
| <b>B-01-RS</b>     | Single-bead, radial-lead | Bulk type (100 pcs./bag)   |
| <b>B-01-RTS</b>    | Single-bead, radial-lead | Tape type (2000 pcs./reel) |
| <b>B-01-RTSF</b>   | Single-bead, radial-lead | Tape type (2000 pcs./box)  |
| <b>B-01-A</b>      | Single-bead, axial-lead  | Bulk type (100 pcs./bag)   |
| <b>B-01-A1</b>     | Single-bead, axial-lead  | Bulk type (250 pcs./bag)   |
| <b>B-01-A2</b>     | Single-bead, axial-lead  | Bulk type (250 pcs./bag)   |
| <b>B-01-AT</b>     | Single-bead, axial-lead  | Tape type (5000 pcs./reel) |
| <b>B-01-ATF</b>    | Single-bead, axial-lead  | Tape type (1500 pcs./box)  |
| <b>B-01-AT1F</b>   | Single-bead, axial-lead  | Tape type (2000 pcs./box)  |
| <b>B-02-R</b>      | Double-bead, radial-lead | Bulk type (100 pcs./bag)   |
| <b>B-02-RT</b>     | Double-bead, radial-lead | Tape type (2000 pcs./reel) |
| <b>B-02-RTF</b>    | Double-bead, radial-lead | Tape type (1500 pcs./box)  |
| <b>B-03-R</b>      | Double-bead, radial-lead | Bulk type (100 pcs./bag)   |
| <b>B-03-RT</b>     | Double-bead, radial-lead | Tape type (2000 pcs./reel) |
| <b>B-06-R-25</b>   | Double-bead, radial-lead | Bulk type (100 pcs./bag)   |
| <b>B-06-RTF-25</b> | Double-bead, radial-lead | Tape type (1500 pcs./reel) |
| <b>B-06-R-50</b>   | Double-bead, radial-lead | Bulk type (100 pcs./bag)   |
| <b>B-06-RTF-50</b> | Double-bead, radial-lead | Tape type (1500 pcs./box)  |

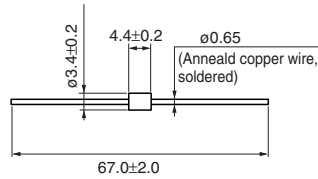
Lead Type

Shape and Dimensions

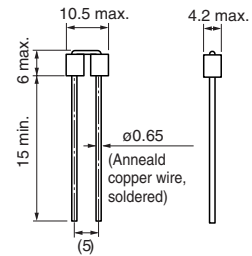
●B-01-R Series



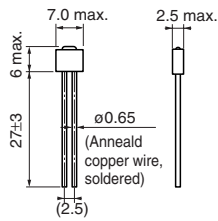
●B-01-A Series



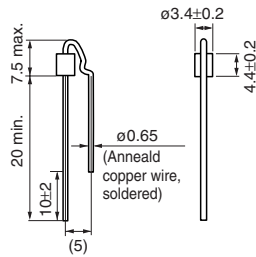
●B-02-R Series



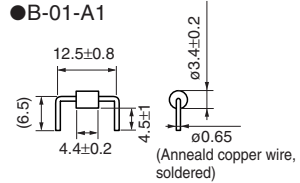
●B-06-R-25 Series



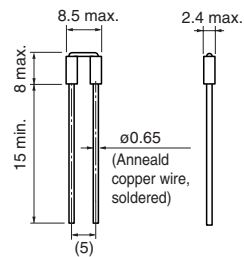
●B-01-RS Series



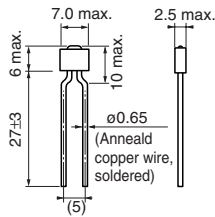
●B-01-A1



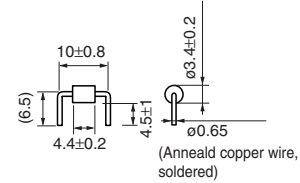
●B-03-R Series



●B-06-R-50 Series



●B-01-A2

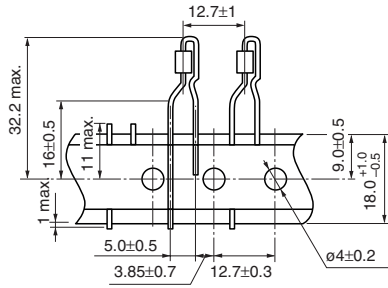


[mm]

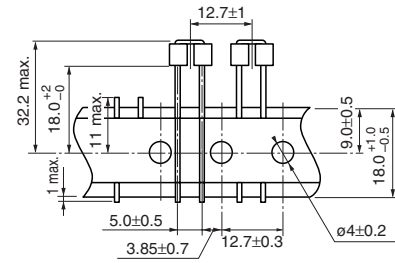
Lead Type

Tape and Reel Dimensions

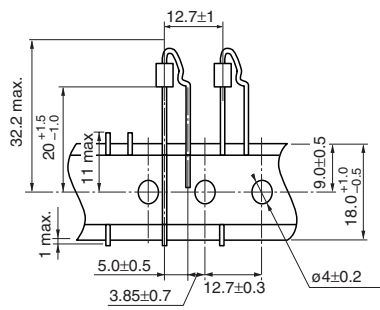
●B-01-RT • RTF



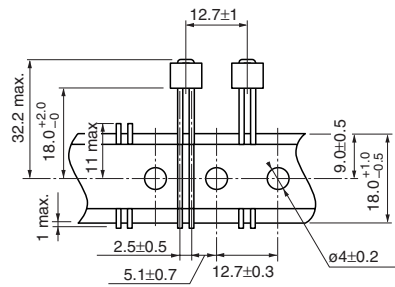
●B-02-RT • RTF/B-03-RT



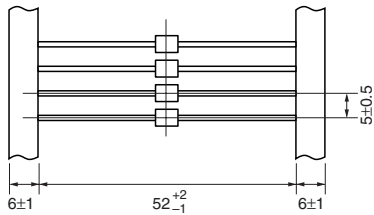
●B-01-RTS • RTSF



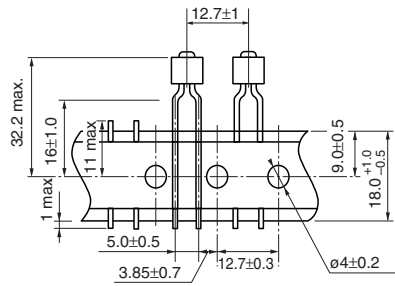
●B-06-RTF-25



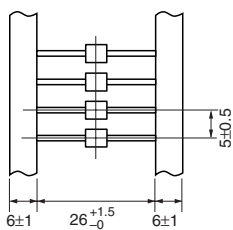
●B-01-AT • ATF



●B-06-RTF-50



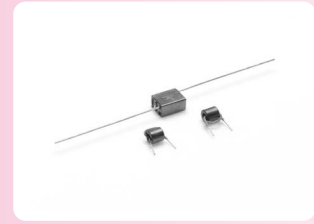
●B-01-AT1F



[mm]

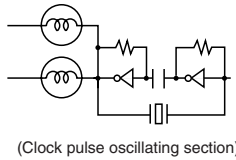
Winding Type

# Bead Inductors (Winding Type)

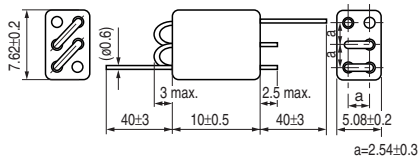


| Model   | Core      | Wire  | No. of turns |
|---------|-----------|---|--------------|
| B-1     | B-20F-28  | Teflon wire (ø0.26 : single) / Color: White | 2T           |
| B-3     | B-20L-48B | Teflon wire (ø0.51 : single) / Color: Red   | 2T           |
| B-4     | B-20L-44  | Teflon wire (ø0.26 : single) / Color: White | 2T           |
| B-5     | B-20L-44  | Teflon wire (ø0.26 : single) / Color: White | 3T           |
| B-7     | B-20F-28  | Teflon wire (ø0.32 : single) / Color: Green | 2T           |
| B-8     | B-20L-48B | Teflon wire (ø0.4 : single) / Color: Blue   | 2T           |
| B-9     | B-20L-48B | Teflon wire (ø0.4 : single) / Color: Yellow | 3T           |
| B-10    | B-20L-48B | Teflon wire (ø0.4 : single) / Color: Black  | 4T           |
| B-6-22B | —         | Soft copper wire (ø0.6)                     | —            |
| B-6-31B | —         | Soft copper wire (ø0.6)                     | —            |

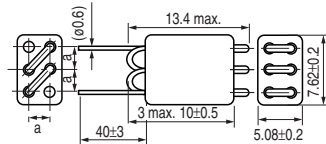
## Shape and Dimensions



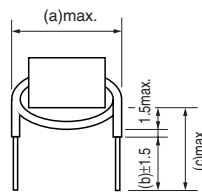
### ●B-6-22B



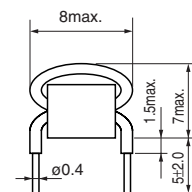
### ●B-6-31B



### ●B-1,3,4,5,7



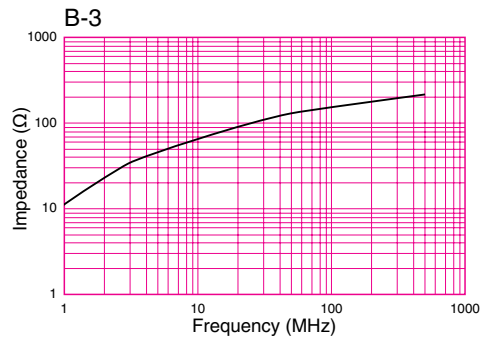
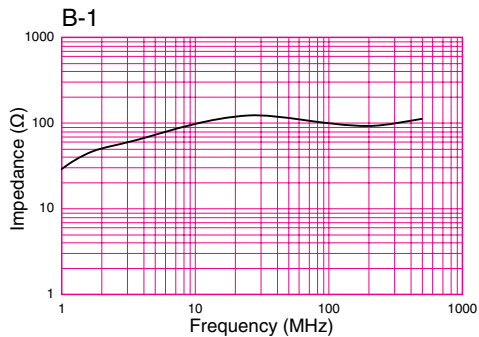
### ●B-8,9,10



| Model | (a)  | (b) | (c) |
|-------|------|-----|-----|
| B-1   | 5.5  | 5   | 9   |
| B-3   | 9    | 5   | 10  |
| B-4   | 10.5 | 5   | 9   |
| B-5   | 11   | 5   | 9   |
| B-7   | 6    | 5   | 9   |

[mm]

## Impedance vs. Frequency



# EMI Cores

## Winding Type

### Impedance vs. Frequency

