

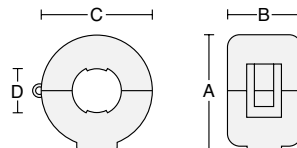
## cable snap



Ferrite assembly in fully enclosed nylon case; functional with wires and cables up to a 2.0" (50,8mm) diameter. Snap closed around wire by clamping shut to position assembly.

May also be mounted with a flat-head screw through the .120" (3,0mm) diameter hole in the bottom by temporarily removing lower ferrite half.

Very effective from 1 MHz to 60 MHz; peak attenuation at 30 MHz. See pages 32 and 33 for impedance curve characteristics.



| PART No.  | A           | B          | C           | D          | IMPEDANCE IN OHMS |                              |
|-----------|-------------|------------|-------------|------------|-------------------|------------------------------|
| CS33B1805 | 1.040 26,4  | .667 16,9  | 1.025 26,4  | .340 8,6   | 22 @ 30MHz        |                              |
| CS33B1984 | 1.218 30,9  | .705 17,9  | 1.220 31,0  | .525 13,3  | 20 @ 30MHz        |                              |
| CS33B2000 | 2.350 59,7  | 1.851 47,0 | 2.309 58,6  | .960 24,4  | 210 @ 30MHz       | see page 31 for more details |
| CS33B4000 | 4.500 114,2 | 1.851 47,0 | 4.687 110,0 | 1.960 49,8 | 140 @ 30MHz       | see page 31 for more details |

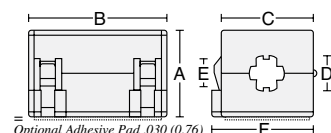
## sleeve snap



Box-shaped ferrite assembly in enclosed nylon case. Various sizes are functional with wires up to .500" (12,7mm) diameter. Simply clamp around cable or wire; plastic tabs at entry/exit ports apply pressure to cable surface to maintain mounting position. Options include foam adhesive pad on bottom.

Very effective from 1 MHz to 60 MHz; peak attenuation at 30 MHz. See pages 32 and 33 for impedance curve characteristics.

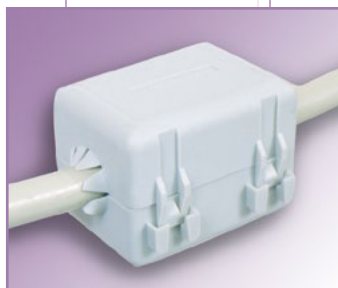
Available in standard colors gray (i.e., SS33B2030) and black (i.e., SS33B2030K)



Patent No. 5,764,125

| PART No.            |  | w/ Adhesive |      | A     |      | B     |      | C    |      | D    |      | E     |      | F |  | IMPEDANCE IN OHMS |
|---------------------|--|-------------|------|-------|------|-------|------|------|------|------|------|-------|------|---|--|-------------------|
| SS33B2030 AS33B2030 |  | .790        | 20,1 | 1.265 | 32,1 | .770  | 19,6 | .270 | 6,9  | .220 | 5,6  | .885  | 22,5 |   |  | 23 @ 30MHz        |
| SS33B2033 AS33B2033 |  | .790        | 20,1 | 1.265 | 32,1 | .770  | 19,6 | .350 | 8,8  | .290 | 7,4  | .885  | 22,5 |   |  | 23 @ 30MHz        |
| SS33B2036 AS33B2036 |  | 1.155       | 29,3 | 1.250 | 31,8 | 1.125 | 28,6 | .415 | 10,5 | .350 | 8,9  | 1.230 | 31,2 |   |  | 27 @ 30MHz        |
| SS33B2040 AS33B2040 |  | 1.155       | 29,3 | 1.250 | 31,8 | 1.125 | 28,6 | .550 | 14,0 | .480 | 12,2 | 1.230 | 31,2 |   |  | 27 @ 30MHz        |

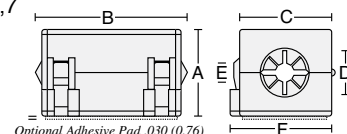
## sleeve snap



**WITH VARIABLE DIAMETER END PORTS.** Box-shaped ferrite assembly in fully enclosed nylon case. End ports are surrounded with flexible spring flutes to grip a range of cable diameters from .125" to .500" (3,2 to 12,7 mm). Special mounting options include foam adhesive pad on bottom.

Very effective from 1 MHz to 60 MHz; peak attenuation at 30 MHz. See pages 32 and 33 for impedance curve characteristics.

Available in standard colors gray (i.e., SS33B2037) and black (i.e., SS33B2037K)



Patent No. 5,003,278 and Patent No. 5,764,125

| PART No.  | w/ Adhesive | A          | B (ref.)   | C          | D         | E        | F          | IMPEDANCE IN OHMS |
|-----------|-------------|------------|------------|------------|-----------|----------|------------|-------------------|
| SS33B2037 | AS33B2037   | .790 20,1  | 1.450 36,8 | .770 19,6  | .350 8,8  | .200 5,1 | .885 22,5  | 23 @ 30 MHz       |
| SS33B2032 | AS33B2032   | 1.155 29,3 | 1.450 36,8 | 1.125 28,6 | .500 12,7 | .200 5,1 | 1.230 31,2 | 27 @ 30 MHz       |

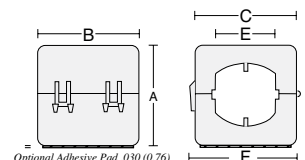
## sleeve snap for cable bundles



Box-shaped ferrite assembly for cable bundle diameters up to .730" (18,5mm) diameter. Allows single location for RFI suppression for multiple cables. Each circuit reacts separately with the suppression material without saturation. Alternatively, multiple turns of a single cable greatly increases impedance depending on frequency - see page 6, figures 3 and 4. Optional adhesive mount base.

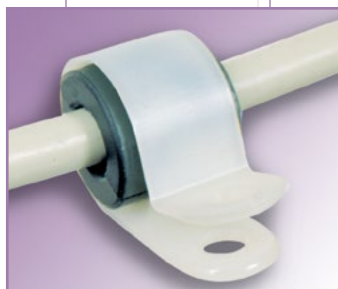
Very effective from 1 MHz to 60 MHz; peak attenuation at 30 MHz. See pages 32 and 33 for impedance curve characteristics.

Available in standard colors gray (i.e., SS33B2035) and black (i.e., SS33B2035K)



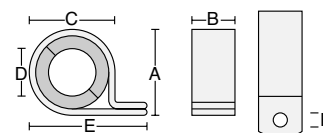
| PART No.           | w/ Adhesive | A          | B          | C         | D         | E          | F | IMPEDANCE IN OHMS |
|--------------------|-------------|------------|------------|-----------|-----------|------------|---|-------------------|
| SS33B2035AS33B2035 | 1.155 29.3  | 1.250 31.8 | 1.125 28.6 | .790 20.1 | .720 18.3 | 1.230 31.2 |   | 23 @ 30MHz        |

## cable clamp



Ferrite assembly bonded to nylon strap; functional with wires and cables up to a 1.00" (25,4 mm) diameter. Holes are provided for screw mounting.

Very effective from 1 MHz to 60 MHz; peak attenuation at 30 MHz. See pages 32 and 33 for impedance curve characteristics.



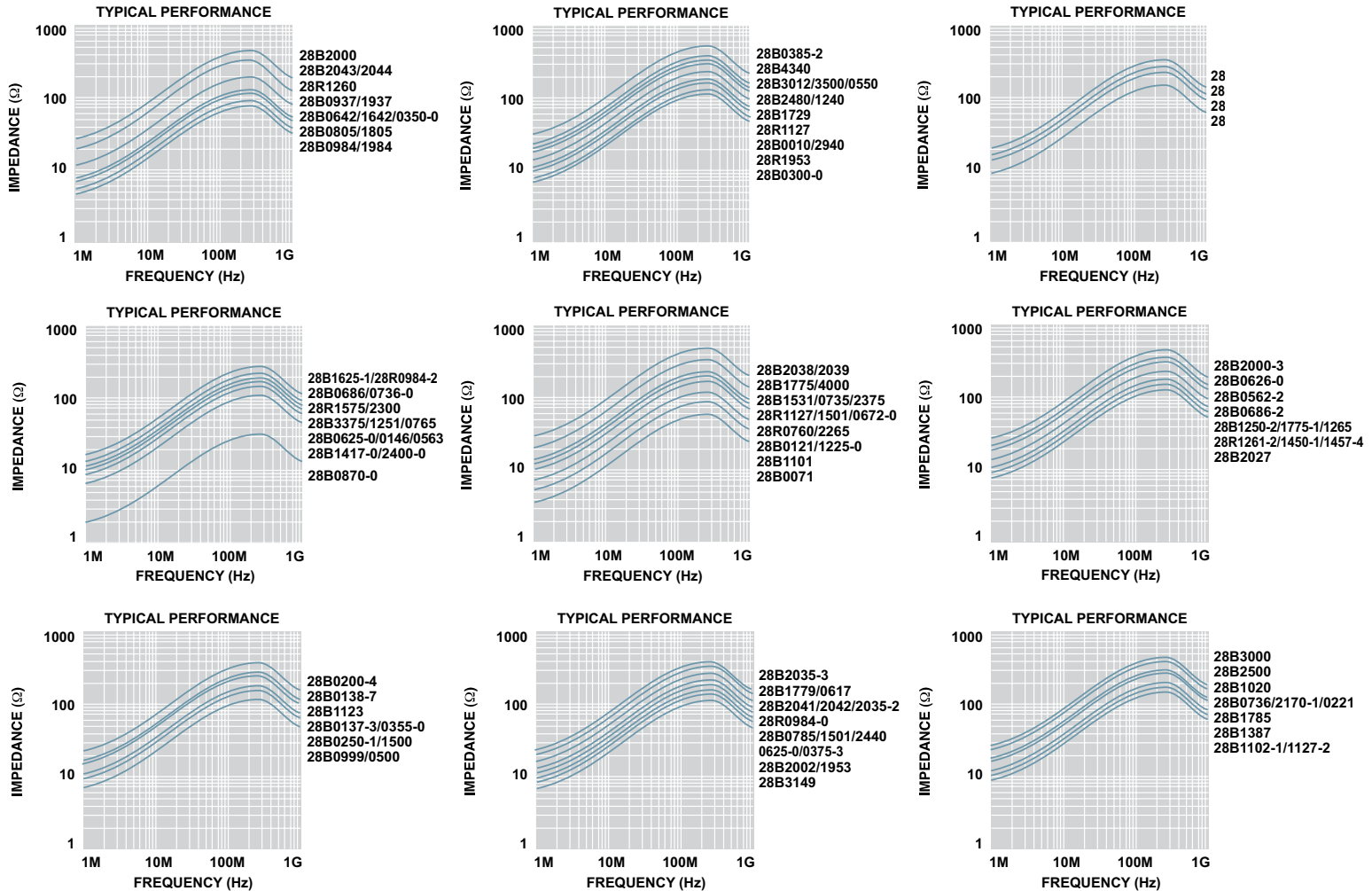
| PART No.  | A          | B          | C          | D          | E          | F        | IMPEDANCE IN OHMS |
|-----------|------------|------------|------------|------------|------------|----------|-------------------|
| TC33B0805 | .948 24,1  | .500 12,7  | .948 24,1  | .404 10,3  | 1.498 38,0 | .195 5,0 | 22 @ 30MHz        |
| TC33B0984 | 1.127 28,6 | .500 12,7  | 1.127 28,6 | .591 15,0  | 1.677 42,6 | .195 5,0 | 20 @ 30MHz        |
| TC33B2000 | 2.125 54,0 | 1.500 38,1 | 2.125 54,0 | 1.000 25,4 | 2.860 72,6 | .281 7,1 | 210 @ 30MHz       |

# Attenuation Properties by Part Number

## IMPEDANCE VS. FREQUENCY-#28 MATERIAL.

The #28 formulation of suppression material is our most common product. It is an excellent wideband general purpose insertion loss absorber for frequencies from 10 MHz up to 1 GHz.

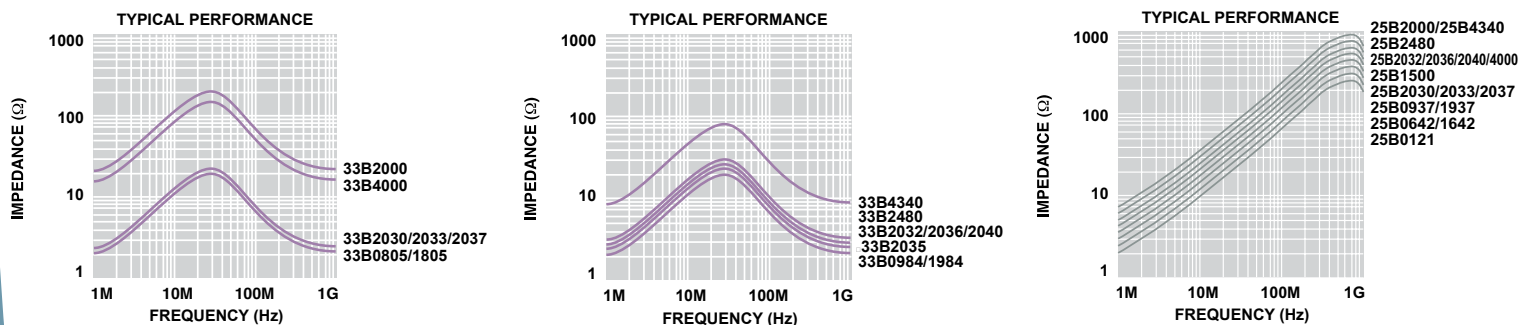
All of the impedance data below applies to the FerriShield® series which are specified by "28B" or the following alpha prefixes: TC, CS, CA, CW, CF, CV, FA, FF, FD, FX, IL, BA, BC, ET, SE, SA, PM, JB, CG, UG, HF, HI, HW, HA, SM, WC, CC, AC, PC, HC, HD, RC, RA, SF, SD, SS and USB. For specific performance by part number, find the alpha-numeric designation on the charts below according to the last seven digits of each catalog part number; i.e., for part number "CS28B1937" see "28B1937" on the chart.



## IMPEDANCE VS. FREQUENCY-#33 MATERIAL.

The #33 formulation of suppression material is specifically applicable from 1 to 30 MHz with a decreasing effect beyond that range. The part numbers shown below are standard items available from stock and are the most commonly used configurations for those frequencies. Other sizes are available by special order.

All of the impedance data below applies to the FerriShield® series which are specified by "33B" or the following alpha prefixes: TC, CS, CA, CW, CF, CV, FA, FF, FD, ET, RC, RA, SE, SA and SS. For specific performance by part number, find the alpha-numeric designation on the charts below according to the last seven digits of each catalog part number; i.e. for part number "SS33B2032" see "33B2032" on the chart.



## IMPEDANCE VS. FREQUENCY-#25 MATERIAL.

The #25 formulation of suppression material is designed to address frequencies resulting from microprocessor speeds above 100MHz and harmonics peak interference at 700MHz with some attenuation effect up to 1.2GHz. Most of the product styles in this catalog are available by special order within a convenient lead time.

Impedance data for standard stock items is shown below. They are available in the component assemblies with the following alpha prefixes: TC, CS, CA, CW, CF, CV, FA, FF, FD, ET, RC, RA, SE, SA, IL and SS.

All attenuation data is derived from tests using an HP4191A attenuation analyzer with spring clip or binding post fixturing, and does not include the test wire resistance. All impedance readings are shown at nominal  $\pm 10\%$  at 3 standard deviations from the mean.