



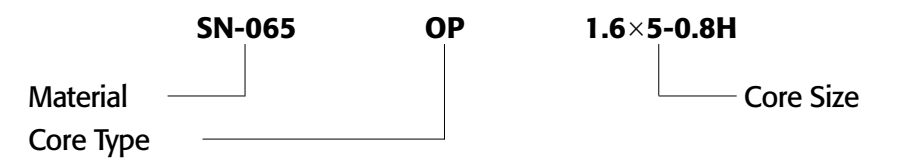
# EMC CORES

**OP1.6~OP28, OR9.5~OR34.8**

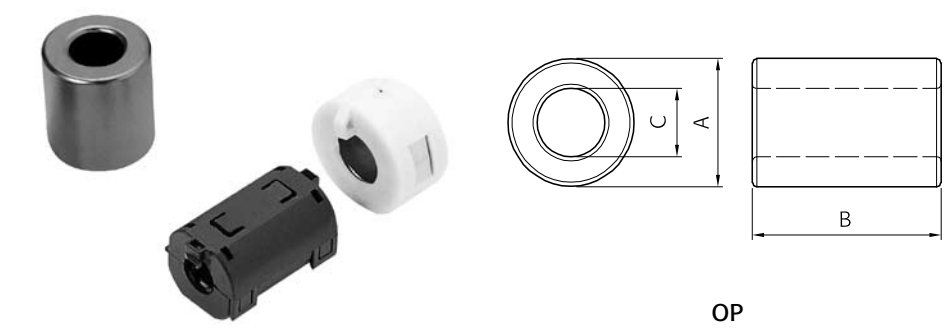
**OPS18.4~OPS22**

**SS29~SS35**

Ordering Code System



OP CORES



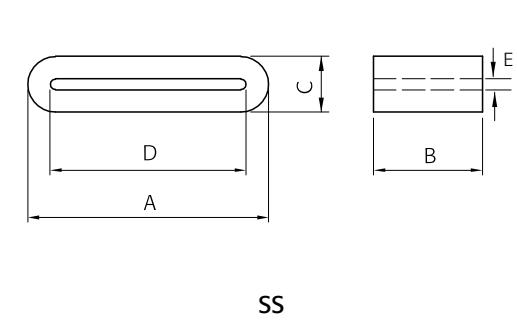
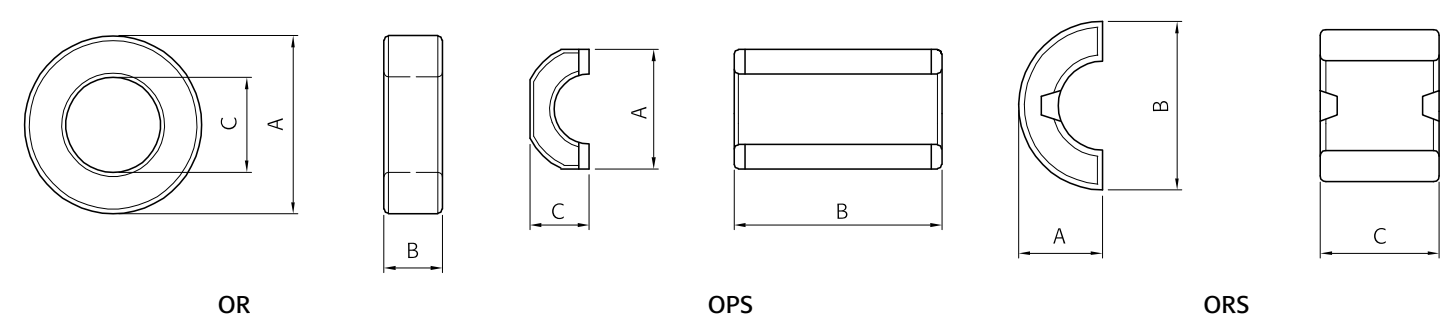
| Part No.        | Type | Dimensions in mm                       |                                         |                                        |  |  |
|-----------------|------|----------------------------------------|-----------------------------------------|----------------------------------------|--|--|
|                 |      | A                                      | B                                       | C                                      |  |  |
| OP1.6×5-0.8H    | OP   | 1.60 <sup>+0.15</sup> <sub>-0.00</sub> | 5.00 <sup>+0.00</sup> <sub>-0.40</sub>  | 0.80 <sup>+0.15</sup> <sub>-0.00</sub> |  |  |
| OP2.5×5-0.8H    | OP   | 2.50 <sup>±0.20</sup>                  | 5.00 <sup>±0.20</sup>                   | 0.80 <sup>±0.10</sup>                  |  |  |
| OP3.5×5-0.8H    | OP   | 3.50 <sup>+0.10</sup> <sub>-0.05</sub> | 5.00 <sup>±0.20</sup>                   | 0.80 <sup>+0.10</sup> <sub>-0.00</sub> |  |  |
| OP3.5×5-1.2H    | OP   | 3.50 <sup>+0.10</sup> <sub>-0.05</sub> | 5.00 <sup>±0.20</sup>                   | 1.20 <sup>+0.10</sup> <sub>-0.00</sub> |  |  |
| OP3.5x5.7-0.8H  | OP   | 3.50 <sup>+0.10</sup> <sub>-0.05</sub> | 5.70 <sup>+0.30</sup> <sub>-0.00</sub>  | 0.80 <sup>+0.10</sup> <sub>-0.00</sub> |  |  |
| OP3.5×6.5-0.8H  | OP   | 3.50 <sup>+0.10</sup> <sub>-0.05</sub> | 6.50 <sup>+0.00</sup> <sub>-0.40</sub>  | 0.80 <sup>+0.10</sup> <sub>-0.00</sub> |  |  |
| OP3.5×8-0.8H    | OP   | 3.50 <sup>+0.10</sup> <sub>-0.05</sub> | 8.00 <sup>±0.20</sup>                   | 0.80 <sup>+0.10</sup> <sub>-0.00</sub> |  |  |
| OP3.5×10-0.8H   | OP   | 3.50 <sup>+0.20</sup> <sub>-0.00</sub> | 10.00 <sup>+0.25</sup> <sub>-0.15</sub> | 0.80 <sup>+0.15</sup> <sub>-0.05</sub> |  |  |
| OP3.5×12-0.8H   | OP   | 3.50 <sup>+0.20</sup> <sub>-0.00</sub> | 12.00 <sup>+0.25</sup> <sub>-0.15</sub> | 0.80 <sup>+0.15</sup> <sub>-0.05</sub> |  |  |
| OP3.5×14-0.8H   | OP   | 3.50 <sup>+0.20</sup> <sub>-0.00</sub> | 14.00 <sup>+0.25</sup> <sub>-0.15</sub> | 0.80 <sup>+0.15</sup> <sub>-0.05</sub> |  |  |
| OP4.5×5-1.5H    | OP   | 4.50 <sup>+0.05</sup> <sub>-0.20</sub> | 5.00 <sup>±0.30</sup>                   | 1.50 <sup>+0.20</sup> <sub>-0.05</sub> |  |  |
| OP5×5-2.5H      | OP   | 5.00 <sup>+0.00</sup> <sub>-0.20</sub> | 5.00 <sup>+0.00</sup> <sub>-0.30</sub>  | 2.50 <sup>±0.10</sup>                  |  |  |
| OP8×12-3.5H     | OP   | 8.00 <sup>±0.30</sup>                  | 12.00 <sup>±0.50</sup>                  | 3.50 <sup>±0.30</sup>                  |  |  |
| OP9.5×9.5-4.75H | OP   | 9.50 <sup>±0.30</sup>                  | 9.50 <sup>±0.30</sup>                   | 4.75 <sup>±0.25</sup>                  |  |  |
| OP9.5x20-4.75H  | OP   | 9.50 <sup>±0.30</sup>                  | 20.00 <sup>±0.50</sup>                  | 4.75 <sup>±0.25</sup>                  |  |  |
| OP9.8×7.4-6.3H  | OP   | 9.80 <sup>±0.30</sup>                  | 7.40 <sup>±0.30</sup>                   | 6.30 <sup>±0.30</sup>                  |  |  |
| OP9.8x24.5-4.9H | OP   | 9.80 <sup>±0.30</sup>                  | 24.50 <sup>+0.40</sup> <sub>-0.50</sub> | 4.90 <sup>±0.25</sup>                  |  |  |

| Core Set Parameters   |        |                      |                      |                      |      |
|-----------------------|--------|----------------------|----------------------|----------------------|------|
| C1(mm <sup>-1</sup> ) | Le(mm) | Ae(mm <sup>2</sup> ) | Ve(mm <sup>3</sup> ) | Aw(mm <sup>2</sup> ) | W(g) |
| 1.813                 | 3.5    | 1.9                  | 7                    | 0.5                  | 0.1  |
| 1.103                 | 4.2    | 3.8                  | 16                   | 0.5                  | 0.1  |
| 0.851                 | 4.8    | 5.6                  | 27                   | 0.5                  | 0.3  |
| 1.174                 | 6.1    | 5.2                  | 32                   | 1.1                  | 0.2  |
| 0.747                 | 4.8    | 6.4                  | 31                   | 0.5                  | 0.4  |
| 0.655                 | 4.8    | 7.3                  | 35                   | 0.5                  | 0.2  |
| 0.532                 | 4.8    | 9.0                  | 43                   | 0.5                  | 0.4  |
| 0.426                 | 4.8    | 11.3                 | 54                   | 0.5                  | 0.5  |
| 0.355                 | 4.8    | 13.6                 | 65                   | 0.5                  | 0.7  |
| 0.304                 | 4.8    | 15.8                 | 76                   | 0.5                  | 0.8  |
| 1.144                 | 7.8    | 6.8                  | 53                   | 1.8                  | 0.4  |
| 1.813                 | 10.9   | 6.0                  | 65                   | 4.9                  | 0.5  |
| 0.633                 | 16.2   | 25.5                 | 412                  | 9.6                  | 2.9  |
| 0.954                 | 20.7   | 21.7                 | 449                  | 17.7                 | 3.0  |
| 0.453                 | 20.7   | 45.6                 | 944                  | 17.7                 | 6.1  |
| 1.922                 | 24.5   | 12.7                 | 312                  | 31.2                 | 2.1  |
| 0.370                 | 21.3   | 57.7                 | 1231                 | 18.9                 | 7.8  |

| Part No.         | Type | Dimensions in mm                        |                                         |                                        |
|------------------|------|-----------------------------------------|-----------------------------------------|----------------------------------------|
|                  |      | A                                       | B                                       | C                                      |
| OP11.8×15-7.3H   | OP   | 11.80 <sup>±0.30</sup>                  | 15.00 <sup>±0.50</sup>                  | 7.30 <sup>±0.30</sup>                  |
| OP12×20-5.6H     | OP   | 12.00 <sup>±0.40</sup>                  | 20.00 <sup>±0.70</sup>                  | 5.60 <sup>±0.20</sup>                  |
| OP13.9×15-6.9H   | OP   | 13.90 <sup>±0.40</sup>                  | 15.00 <sup>±0.50</sup>                  | 6.90 <sup>±0.40</sup>                  |
| OP14.2×28.5-6.4H | OP   | 14.20 <sup>+0.30</sup> <sub>-0.50</sub> | 28.50 <sup>±0.50</sup>                  | 6.40 <sup>±0.30</sup>                  |
| OP14.2×28.5-7.2H | OP   | 14.20 <sup>±0.50</sup>                  | 28.00 <sup>±0.50</sup>                  | 7.20 <sup>±0.40</sup>                  |
| OP14.3×23.5-8.1H | OP   | 14.30 <sup>±0.50</sup>                  | 23.50 <sup>±0.50</sup>                  | 8.10 <sup>±0.50</sup>                  |
| OP14.3×23.5-8.2H | OP   | 14.30 <sup>±0.50</sup>                  | 23.50 <sup>±0.50</sup>                  | 8.20 <sup>±0.50</sup>                  |
| OP16.1×17-7.9H   | OP   | 16.10 <sup>±0.40</sup>                  | 17.00 <sup>±0.50</sup>                  | 7.90 <sup>±0.40</sup>                  |
| OP16.1×17-8.9H   | OP   | 16.00 <sup>±0.40</sup>                  | 17.00 <sup>±0.50</sup>                  | 8.90 <sup>±0.30</sup>                  |
| OP16.1×28.3-7.9H | OP   | 16.10 <sup>±0.40</sup>                  | 28.30 <sup>±0.80</sup>                  | 8.00 <sup>±0.30</sup>                  |
| OP17.5×28.5-9.5H | OP   | 17.20 <sup>±0.50</sup>                  | 28.50 <sup>±0.40</sup>                  | 9.50 <sup>±0.30</sup>                  |
| OP18.2×25.5-11H  | OP   | 18.20 <sup>±0.50</sup>                  | 25.50 <sup>±0.70</sup>                  | 11.00 <sup>±0.50</sup>                 |
| OP18.3×28-9.7H   | OP   | 18.30 <sup>±0.50</sup>                  | 28.00 <sup>+0.40</sup> <sub>-0.80</sub> | 9.70 <sup>+0.40</sup> <sub>-0.30</sub> |
| OP18.4×28-9.5H   | OP   | 8.40 <sup>±0.40</sup>                   | 28.00 <sup>+0.40</sup> <sub>-0.80</sub> | 9.50 <sup>±0.40</sup>                  |
| OP25.8x28.5-13H  | OP   | 25.80 <sup>±0.50</sup>                  | 28.50 <sup>±0.50</sup>                  | 13.00 <sup>±0.30</sup>                 |
| OP28×28-14.5H    | OP   | 28.00 <sup>+0.30</sup> <sub>-0.50</sub> | 28.00 <sup>±0.50</sup>                  | 14.50 <sup>±0.50</sup>                 |

| Core Set Parameters   |        |                      |                      |                      |      |
|-----------------------|--------|----------------------|----------------------|----------------------|------|
| C1(mm <sup>-1</sup> ) | Le(mm) | Ae(mm <sup>2</sup> ) | Ve(mm <sup>3</sup> ) | Aw(mm <sup>2</sup> ) | W(g) |
| 0.872                 | 28.9   | 33.1                 | 956                  | 41.9                 | 5.7  |
| 0.412                 | 25.1   | 61.0                 | 1533                 | 24.6                 | 9.0  |
| 0.598                 | 30.1   | 50.4                 | 1520                 | 37.4                 | 8.8  |
| 0.277                 | 29.2   | 105.4                | 3076                 | 32.2                 | 18.3 |
| 0.330                 | 31.2   | 94.3                 | 2939                 | 40.7                 | 17.1 |
| 0.470                 | 33.4   | 70.9                 | 2366                 | 51.5                 | 13.1 |
| 0.481                 | 33.6   | 69.9                 | 2346                 | 52.8                 | 11.5 |
| 0.519                 | 34.7   | 66.8                 | 2319                 | 49.0                 | 12.5 |
| 0.630                 | 37.0   | 58.6                 | 2168                 | 62.2                 | 12.3 |
| 0.317                 | 34.9   | 110.1                | 3845                 | 50.3                 | 22.2 |
| 0.371                 | 39.6   | 106.6                | 4217                 | 70.9                 | 23.0 |
| 0.489                 | 44.0   | 89.9                 | 3954                 | 95.0                 | 22.4 |
| 0.354                 | 41.2   | 116.4                | 4793                 | 73.9                 | 24.9 |
| 0.339                 | 40.8   | 120.2                | 4901                 | 70.9                 | 28.1 |
| 0.322                 | 56.4   | 175.4                | 9898                 | 132.7                | 56.5 |
| 0.341                 | 62.2   | 182.3                | 11336                | 165.1                | 60.8 |

# OR, OPS, ORS, SS CORES



| Dimensions in mm |      |             |             |             |
|------------------|------|-------------|-------------|-------------|
| Part No.         | Type | A           | B           | C           |
| OR9.5x5-4.75H    | OR   | 9.55 ±0.30  | 5.00 ±0.30  | 4.75 ±0.25  |
| OR12.5×5.1-7.6H  | OR   | 12.50 ±0.40 | 5.10 ±0.30  | 7.60 ±0.40  |
| OR18.2×6.2-11H   | OR   | 18.20 ±0.50 | 6.20 ±0.50  | 11.00 ±0.50 |
| OR18.3×10-9.7H   | OR   | 18.30 ±0.40 | 10.00 ±0.40 | 9.70 ±0.40  |
| OR18.3×12-9.7H   | OR   | 18.30 ±0.40 | 12.00 ±0.40 | 9.70 ±0.40  |
| OR18.4×10-9.5H   | OR   | 18.40 ±0.40 | 10.00 ±0.40 | 9.50 ±0.40  |
| OR18.4×12-9.5H   | OR   | 18.40 ±0.40 | 12.00 ±0.40 | 9.50 ±0.40  |
| OR19×10-10H      | OR   | 19.00 ±0.50 | 10.00 ±0.50 | 10.00 ±0.50 |
| OR21×12-13H      | OR   | 21.10 ±0.50 | 11.90 ±0.50 | 13.20 ±0.50 |
| OR23.5×9.5-12.6H | OR   | 23.50 ±0.40 | 9.50 ±0.30  | 12.60 ±0.40 |
| OR28×14-14.5H    | OR   | 28.00 ±0.50 | 14.00 ±0.50 | 14.50 ±0.50 |
| OR29×7.5-19H     | OR   | 29.00 ±0.50 | 7.50 ±0.50  | 19.00 ±0.50 |
| OR33×26-20H      | OR   | 33.00 ±0.40 | 26.00 ±0.30 | 20.00 ±0.40 |
| OR34×12-20H      | OR   | 33.70 ±0.50 | 12.00 ±0.40 | 20.30 ±0.50 |
| OR34.8×12-21H    | OR   | 34.80 ±0.40 | 12.00 ±0.50 | 21.00 ±0.40 |

| Core Set Parameters   |        |                      |                      |                      |       |
|-----------------------|--------|----------------------|----------------------|----------------------|-------|
| C1(mm <sup>-1</sup> ) | Le(mm) | Ae(mm <sup>2</sup> ) | Ve(mm <sup>3</sup> ) | Aw(mm <sup>2</sup> ) | W(g)  |
| 1.799                 | 20.7   | 11.5                 | 239                  | 17.72                | 2.85  |
| 2.476                 | 30.3   | 12.2                 | 371                  | 45.36                | 2.06  |
| 2.013                 | 44.0   | 21.9                 | 961                  | 95.03                | 5.69  |
| 0.990                 | 41.2   | 41.6                 | 1712                 | 73.90                | 8.83  |
| 0.825                 | 41.2   | 49.9                 | 2054                 | 73.90                | 11.87 |
| 0.950                 | 40.8   | 42.9                 | 1750                 | 70.88                | 10.60 |
| 0.792                 | 40.8   | 51.5                 | 2101                 | 70.88                | 11.77 |
| 0.979                 | 42.6   | 43.5                 | 1851                 | 78.54                | 10.50 |
| 1.126                 | 52.0   | 46.2                 | 2398                 | 136.85               | 11.10 |
| 1.061                 | 53.2   | 50.1                 | 2667                 | 124.69               | 15.70 |
| 0.682                 | 62.2   | 91.2                 | 5668                 | 165.13               | 31.39 |
| 1.981                 | 73.2   | 36.9                 | 2704                 | 283.53               | 14.72 |
| 0.483                 | 79.9   | 165.5                | 13220                | 314.16               | 66.00 |
| 1.033                 | 81.3   | 78.7                 | 6398                 | 323.65               | 35.32 |
| 1.037                 | 84.0   | 81.1                 | 6812                 | 346.36               | 37.28 |

| Dimensions in mm |      |                                         |             |                                         |
|------------------|------|-----------------------------------------|-------------|-----------------------------------------|
| Part No.         | Type | A                                       | B           | C                                       |
| OPS18.4×28-9.5H  | OPS  | 16.40 ±0.40                             | 28.00 ±0.40 | 8.20 ±0.15                              |
| OPS18x28-10H     | OPS  | 18.00 ±0.40                             | 28.00 ±0.40 | 9.00 ±0.30                              |
| OPS22x28-11H     | OPS  | 22.00 ±0.40                             | 28.00 ±0.50 | 11.00 ±0.30                             |
|                  |      |                                         |             |                                         |
| ORS25x12-15H     | ORS  | 12.50 <sup>+0.20</sup> <sub>-0.30</sub> | 25.00 ±0.40 | 12.00 <sup>+0.20</sup> <sub>-0.40</sub> |
| ORS16.4×13-8.2HA | ORS  | 8.30 <sup>+0.00</sup> <sub>-0.30</sub>  | 16.30 ±0.30 | 13.30 <sup>+0.00</sup> <sub>-0.40</sub> |
| ORS16.4×16-8.2HA | ORS  | 8.30 <sup>+0.00</sup> <sub>-0.30</sub>  | 16.30 ±0.30 | 16.10 <sup>+0.00</sup> <sub>-0.40</sub> |

| Core Set Parameters   |        |                      |                      |                      |       |
|-----------------------|--------|----------------------|----------------------|----------------------|-------|
| C1(mm <sup>-1</sup> ) | Le(mm) | Ae(mm <sup>2</sup> ) | Ve(mm <sup>3</sup> ) | Aw(mm <sup>2</sup> ) | W(g)  |
| 0.324                 | 35.7   | 110.3                | 3940                 | 52.81                | 28.45 |
| 0.324                 | 39.2   | 121.1                | 4746                 | 63.62                | 29.43 |
| 0.324                 | 47.9   | 148.0                | 7089                 | 95.03                | 45.03 |
|                       |        |                      |                      |                      |       |
| 6.157                 | 38.5   | 6.2                  | 240                  | 113.10               | 18.74 |
| 0.750                 | 36.6   | 48.8                 | 1780                 | 58.10                | 10.79 |
| 0.618                 | 36.6   | 59.0                 | 2150                 | 58.10                | 13.24 |

| Dimensions in mm |      |             |             |            |             |            |       |
|------------------|------|-------------|-------------|------------|-------------|------------|-------|
| Part No.         | Type | A           | B           | C          | D           | E          | W(g)  |
| SS29×10-8        | SS   | 29.00 ±0.50 | 10.00 ±0.50 | 8.00 ±0.40 | 22.00 ±0.50 | 2.20 ±0.20 | 8.00  |
| SS29x15-8        | SS   | 29.00 ±0.50 | 15.00 ±0.30 | 8.00 ±0.30 | 21.80 ±0.50 | 2.00 ±0.30 | 13.00 |
| SS31×12-4.7      | SS   | 31.00 ±0.40 | 12.00 ±0.30 | 4.70 ±0.30 | 27.20 ±0.30 | 1.20 ±0.40 | 6.70  |
| SS35×12-6        | SS   | 35.00 ±0.40 | 12.00 ±0.30 | 6.00 ±0.30 | 30.00 ±0.30 | 1.00 ±0.20 | 10.80 |