

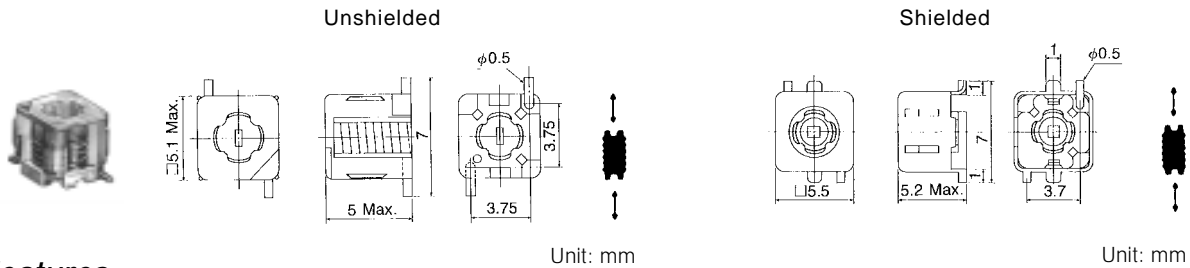
MC152

Close Wound

Frequency Range: 30-150MHz (with ferrite core)

Inductance Range: 29~142nH (without case)
27~94nH (with case)

Temperature Coefficient: 150±100ppm/°C (without case)
100±100ppm/°C (with case)



Unit: mm

Unit: mm

Features

- Low profile SMT molded coil.
- Ideal for use in RF circuit for communication and car radio applications.
- Shielded case also available.

STANDARD COILS SELECTION GUIDE

(1) Alternate use of brass core will increase the usable frequency of any specific coil form, however inductance is reduced. These cores may also be substituted for ferrite as a means of lowering Q.

(2) Q measured by Q meter

(3) Inductance measured by HP-4191A at 100MHz for reference only.

TYPE MC152

| Without Case TOKO Part Number ⁽¹⁾ | Number of Turns | C Range** | Q ⁽²⁾ | Color Code | Inductance ⁽³⁾ |
|--|--------------------|------------|---------------------|---------------|---------------------------|
| Ferrite Core | | | | | |
| E558CN-100020 | 1½ | 80.4pF±2% | 90±20% (at 100MHz) | WHITE | 32nH |
| E558CN-100021 | 2½ | 53.8pF±3% | 110±20% (at 100MHz) | VIOLET | 47nH |
| E558CN-100022 | 3½ | 37.0pF±3% | 110±20% (at 100MHz) | ORANGE | 68nH |
| E558CN-100023 | 4½ | 28.0pF±3% | 115±20% (at 100MHz) | YELLOW | 90nH |
| *E558CN-100024 | 5½ | 22.7pF±3% | 120±20% (at 100MHz) | WHITE | 112nH |
| *E558CN-100025 | 6½ | 17.8pF±3% | 120±20% (at 100MHz) | BLUE | 142nH |
| Air Core | | | | | |
| E558HN-100096 | 1½ | 86.9pF±10% | 85±20% (at 100MHz) | WHITE | 29nH |
| E558HN-100097 | 2½ | 61.2pF±10% | 100±20% (at 100MHz) | VIOLET | 41nH |
| E558HN-100098 | 3½ | 44.9pF±10% | 105±20% (at 100MHz) | ORANGE | 56nH |
| E558HN-100099 | 4½ | 34.6pF±10% | 105±20% (at 100MHz) | YELLOW | 73nH |
| E558HN-100100 | 5½ | 27.9pF±10% | 120±20% (at 100MHz) | WHITE | 91nH |
| E558HN-100101 | 6½ | 22.9pF±10% | 120±20% (at 100MHz) | BLUE | 111nH |
| Brass Core | | | | | |
| E558AN-100040 | 1½ | 88.6pF± 1% | 52±20% (at 100MHz) | WHITE | 29nH |
| E558AN-100041 | 2½ | 66.5pF± 3% | 63±20% (at 100MHz) | VIOLET | 38nH |
| E558AN-100042 | 3½ | 52.4pF± 3% | 56±20% (at 100MHz) | ORANGE | 48nH |
| E558AN-100043 | 4½ | 44.1pF± 2% | 50±20% (at 100MHz) | YELLOW | 57nH |
| E558AN-100044 | 5½ | 35.3pF± 2% | 50±20% (at 100MHz) | WHITE | 72nH |
| E558AN-100045 | 6½ | 30.0pF± 2% | 50±20% (at 100MHz) | BLUE | 84nH |

* Minimum inductance values with core 2 turns above top of bobbin.

** C Range shows tolerance.

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STANDARD COILS SELECTION GUIDE

| <i>TYPE MC152 (cont'd)</i> | | | | | |
|---|-------------------------------|-------------|--------------------|------------|---------------------------|
| With Case TOKO Part Number ⁽¹⁾ | Number of Turns | C Range** | Q ⁽²⁾ | Color Code | Inductance ⁽³⁾ |
| Ferrite Core | | | | | |
| E558CNA-100032 | 1 ¹ / ₂ | 89.0pF±1.5% | 63±20% (at 100MHz) | WHITE | 28nH |
| E558CNA-100033 | 2 ¹ / ₂ | 64.2pF±2.0% | 77±20% (at 100MHz) | VIOLET | 39nH |
| E558CNA-100034 | 3 ¹ / ₂ | 48.2pF±2.0% | 76±20% (at 100MHz) | ORANGE | 53nH |
| E558CNA-100035 | 4 ¹ / ₂ | 37.9pF±2.0% | 81±20% (at 100MHz) | YELLOW | 67nH |
| *E558CNA-100036 | 5 ¹ / ₂ | 31.9pF±2.0% | 86±20% (at 100MHz) | WHITE | 79nH |
| *E558CNA-100037 | 6 ¹ / ₂ | 27.0pF±2.0% | 80±20% (at 100MHz) | BLUE | 94nH |
| Brass Core | | | | | |
| E558ANA-100050 | 1 ¹ / ₂ | 92.2pF±1.0% | 58±20% (at 100MHz) | WHITE | 27nH |
| E558ANA-100051 | 2 ¹ / ₂ | 73.6pF±2.0% | 55±20% (at 100MHz) | VIOLET | 34nH |
| E558ANA-100052 | 3 ¹ / ₂ | 59.1pF±2.0% | 54±20% (at 100MHz) | ORANGE | 43nH |
| E558ANA-100053 | 4 ¹ / ₂ | 48.7pF±2.0% | 52±20% (at 100MHz) | YELLOW | 52nH |
| E558ANA-100054 | 5 ¹ / ₂ | 41.6pF±2.0% | 49±20% (at 100MHz) | WHITE | 61nH |
| E558ANA-100055 | 6 ¹ / ₂ | 37.1pF±2.0% | 47±20% (at 100MHz) | BLUE | 68nH |
| Air Core | | | | | |
| E558HNA-100090 | 1 ¹ / ₂ | 90.7pF±10% | 60±20% (at 100MHz) | WHITE | 28nH |
| E558HNA-100091 | 2 ¹ / ₂ | 68.2pF±10% | 70±20% (at 100MHz) | VIOLET | 37nH |
| E558HNA-100092 | 3 ¹ / ₂ | 52.8pF±10% | 80±20% (at 100MHz) | ORANGE | 48nH |
| E558HNA-100093 | 4 ¹ / ₂ | 42.7pF±10% | 80±20% (at 100MHz) | YELLOW | 59nH |
| E558HNA-100094 | 5 ¹ / ₂ | 35.5pF±10% | 86±20% (at 100MHz) | WHITE | 71nH |
| E558HNA-100095 | 6 ¹ / ₂ | 30.3pF±10% | 83±20% (at 100MHz) | BLUE | 84nH |

* Minimum inductance values with core 2 turns above top of bobbin.

** C Range shows tolerance.