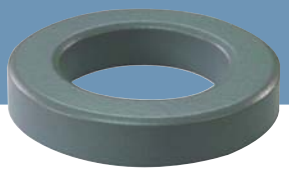
# OD 777

ID 49.23mm
HT 12.7mm



## Core dimensions and Physical specifications

| Before Coating | | | After Coating | | | Physical specifications | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Cross Section | Path Length | Window Area | Volume |
| OD, max | ID, min | HT, max | OD, max | ID, min | HT, max | (Ae) | (le) | (Wa) | (V) |
| 77.8mm | 49.23mm | 12.7mm | 78.9mm | 48mm | 13.97mm | 1.77cm$^2$ | 20cm | 18.1cm$^2$ | 35.4cm$^3$ |
| 3.063in | 1.938in | 0.5in | 3.106in | 1.89in | 0.55in | 0.274in$^2$ | 7.874in | 3572000cmil | 2.16in$^3$ |

## Core Part Number

| Permeability($\mu$) | $A_L$ (nH/N$^2$) | Part Number | | | | DC Resistance(Rdc) per Inductance(Ω /mH) |
|---|---|---|---|---|---|---|
| | | MPP | High Flux | Sendust | SFlux | |
| 26 | 30 | OR777M026 | OR777H026 | OR777S026 | - | 0.0392 |
| 60 | 68 | OR777M060 | OR777H060 | OR777S060 | OR777F060 | 0.0170 |
| 75 | 85 | - | - | OR777S075 | - | 0.0136 |
| 90 | 102 | - | - | OR777S090 | OR777F090 | 0.0113 |
| 125 | 142 | OR777M125 | OR777H125 | OR777S125 | - | 0.0081 |
| 147 | - | - | - | - | - | 0.0069 |
| 160 | - | - | - | - | - | 0.0064 |
| 173 | - | - | - | - | - | 0.0059 |
| 200 | - | - | - | - | - | 0.0051 |

## Winding Information

| AWG wire | | Single layer | |
|---|---|---|---|
| No. | Dia.(cm) | Turns | Rdc, Ω |
| 8 | 0.334 | 41 | 0.0055 |
| 9 | 0.298 | 47 | 0.0079 |
| 10 | 0.267 | 53 | 0.0113 |
| 11 | 0.238 | 60 | 0.0162 |
| 12 | 0.213 | 67 | 0.0228 |
| 13 | 0.190 | 76 | 0.0325 |

| AWG wire | | Single layer | |
|---|---|---|---|
| No. | Dia.(cm) | Turns | Rdc, Ω |
| 14 | 0.171 | 84 | 0.0454 |
| 15 | 0.153 | 95 | 0.0646 |
| 16 | 0.137 | 106 | 0.0912 |
| 17 | 0.122 | 119 | 0.1290 |
| 18 | 0.110 | 134 | 0.1830 |
| 19 | 0.098 | 150 | 0.2580 |

| AWG wire | | Single layer | |
|---|---|---|---|
| No. | Dia.(cm) | Turns | Rdc, Ω |
| 20 | 0.088 | 168 | 0.3640 |
| 21 | 0.079 | 188 | 0.5140 |
| 22 | 0.070 | 211 | 0.7320 |
| 23 | 0.063 | 235 | 1.0200 |
| 24 | 0.057 | 263 | 1.3000 |
| 25 | 0.051 | 295 | 1.8400 |

## $A_L$ value vs. DC Bias characteristics