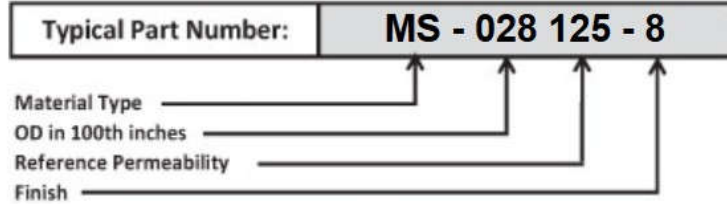
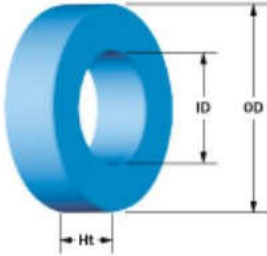


# Спецификация магнитных сердечников Sendust MS-028xxx-8

(Информация с сайта <http://micrometalsarnoldpowdercores.com>)



### Physical Dimensions

| OD | Bare Core Nominal | 7.04 mm | 0.277 in |
|----|-------------------|---------|----------|
|    | Coated Core (max) | 7.67 mm | 0.302 in |
| ID | Bare Core Nominal | 3.96 mm | 0.156 in |
|    | Coated Core (max) | 3.45 mm | 0.136 in |
| Ht | Bare Core Nominal | 5.08 mm | 0.200 in |
|    | Coated Core (max) | 5.72 mm | 0.225 in |

### Magnetic Dimensions

| Ae  | Effective Magnetic Cross Section | 0.07 cm <sup>2</sup> |
|-----|----------------------------------|----------------------|
| Le  | Effective Magnetic Path Length   | 1.68 cm              |
| Ve  | Effective Core Volume            | 0.12 cm <sup>3</sup> |
| WA  | Minimum Effective Window Area    | 0.09 cm <sup>2</sup> |
| SA  | Surface Area                     | 2.8 cm <sup>2</sup>  |
| MLT | Mean Length Per Turn             | 1.74 cm              |

### Permeability Part Numbers

| Reference Permeability     | A <sub>L</sub> Value (nH/N <sup>2</sup> ) | Super-MSS™<br>Sendust | MPP<br>Molypermalloy | FluxSan™<br>Silicon Iron | Hi-Flux™<br>Nickle Iron | Optilloy™<br>Optimized Alloy |
|----------------------------|---|-----------------------|----------------------|--------------------------|-------------------------|------------------------------|
| 14μ                        | 8   | MS-028014-8           | MP-028014-8          | FS-028014-8              | HF-028014-8             | OP-028014-8                  |
| 26μ                        | 14  | MS-028026-8           | MP-028026-8          | FS-028026-8              | HF-028026-8             | OP-028026-8                  |
| 40μ                        | 22  | MS-028040-8           |                      | FS-028040-8              |                         | OP-028040-8                  |
| 60μ                        | 33  | MS-028060-8           | MP-028060-8          | FS-028060-8              | HF-028060-8             | OP-028060-8                  |
| 75μ                        | 42  | MS-028075-8           |                      | FS-028075-8              |                         | OP-028075-8                  |
| 90μ                        | 50  | MS-028090-8           |                      | FS-028090-8              |                         | OP-028090-8                  |
| 125μ                       | 70  | MS-028125-8           | MP-028125-8          |                          | HF-028125-8             | OP-028125-8                  |
| 147μ                       | 81  | MS-028147-8           | MP-028147-8          |                          | HF-028147-8             |                              |
| 160μ                       | 89  | MS-028160-8           | MP-028160-8          |                          | HF-028160-8             |                              |
| 173μ                       | 95  |                       | MP-028173-8          |                          |                         |                              |
| 205μ                       | 113                                       |                       | MP-028205-8          |                          |                         |                              |
| <b>Approx Unit Weight:</b> |   | 0.69 g                | 0.89 g               | 0.82 g                   | 0.82 g                  | 0.80 g                       |

### Test Conditions

|                                |                      |
|--------------------------------|----------------------|
| <b>Winding</b>                 | N=40, #32 AWG        |
| <b>Frequency</b>               | 10 kHz               |
| <b>Voltage</b>                 | 0.012 V              |
| <b>A<sub>L</sub> Tolerance</b> | ±8% (±12% Super-MSS) |

### Coating/Packaging Information

|                          |                |
|--------------------------|----------------|
| <b>Coating Type</b>      | Parylene N     |
| <b>Voltage Breakdown</b> | 500 Vrms       |
| <b>Unit</b>              | 0.1 mA, 5 s    |
| <b>Package Quantity</b>  | 12,600 Pcs/Box |

### Winding Table

| Wire Size    | AWG    | 22     | 24     | 26     | 28      | 30      | 32      | 34      | 36    | 38    | 40    | 42    |
|--------------|--------|--------|--------|--------|---------|---------|---------|---------|-------|-------|-------|-------|
|              |        | mm     | 0.630  | 0.500  | 0.400   | 0.315   | 0.250   | 0.200   | 0.160 | 0.125 | 0.100 | 0.080 |
| Single Layer | Turns  | 11     | 14     | 18     | 23      | 29      | 37      | 47      | 59    | 75    | 93    | 117   |
|              | Rdc(Ω) | 10.1 m | 20.5 m | 41.9 m | 85.1 m  | 170.7 m | 346.3 m | 699.6 m | 1.4   | 2.8   | 5.6   | 11.1  |
| Full Winding | Turns  | 10     | 16     | 25     | 39      | 60      | 92      | 143     | 222   | 343   | 531   | 821   |
|              | Rdc(Ω) | 9.2 m  | 23.4 m | 58.2 m | 144.3 m | 353.1 m | 861.1 m | 2.1     | 5.3   | 12.9  | 31.8  | 78.2  |