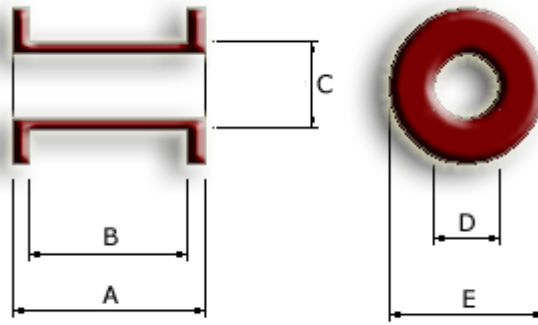


## Test Coils

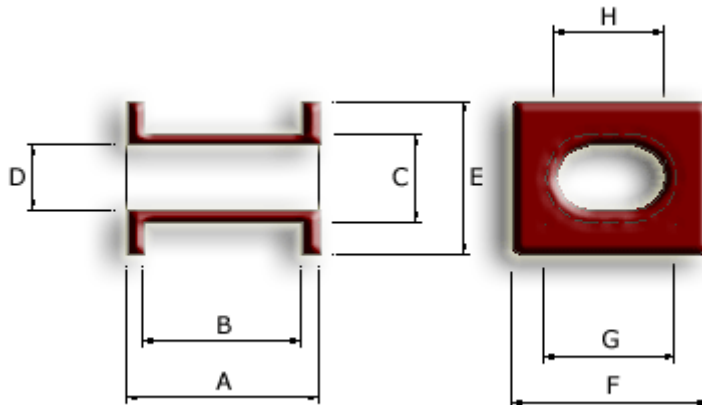
For Reed Switches and Sensors



### Cylindrical

| Test Coil No.      | 717 102 001 | 717 102 002 | 717 102 003 | 717 102 004 | 717 102 005 |
|--------------------|-------------|-------------|-------------|-------------|-------------|
| A                  | 53.3        | 21.0        | 12.0        | 27.8        | 19.0        |
| B                  | 50.8        | 19.0        | 10.0        | 25.4        | 15.0        |
| C                  | 7.6         | 4.3         | 3.3         | 8.7         | 3.7         |
| D                  | 5.6         | 3.4         | 2.3         | 2.4         | 2.9         |
| E                  | 14.1        | 7.7         | 11.0        | 17.2        | 11.0        |
| Wire Diameter      | 0.090       | 0.050       | 0.060       | 0.100       | 0.071       |
| Turns              | 10000       | 5000        | 5000        | 5000        | 5000        |
| Coil Res. $\Omega$ | 845         | 740         | 600         | 404         | 450         |

All dimensions in mm



### Rectangular

| Test Coil                | TCP 3001 | TCP3002 | TCP 3003 | TCP 3004 |
|--------------------------|----------|---------|----------|----------|
| A mm                     | 13.5     | 23.3    | 42.5     | 42.5     |
| B mm                     | 7        | 19.7    | 36.5     | 36.5     |
| C mm                     | 8        | 6.8     | 14.8     | 15.8     |
| D mm                     | 6        | 6.2     | 13.8     | 13.8     |
| E mm                     | 14       | 14.8    | 25.0     | 25.0     |
| F mm                     | 18       | 20.6    | 28.6     | 35.6     |
| G mm                     | 12       | 12.2    | 14.6     | 22.8     |
| H mm                     | 10       | 11.6    | 13.6     | 20.8     |
| Wire Diameter mm         | 0.05     | 0.08    | 0.15     | 0.15     |
| Turns                    | 5000     | 10000   | 5000     | 5000     |
| Coil Resistance $\Omega$ | 2000     | 1900    | 290      | 440      |

Due to continual improvement, specifications are subject to change without notice

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6 December 2004

## Standard Magnets

For Reed Switches and Sensors

### Cylindrical Magnets

|       | Part Number | Material  | D (mm) | L (mm) |
|-------|-------------|-----------|--------|--------|
|       | NDC-T       | NdFeB:N35 | 2.0    | 4.0    |
|       | NDC-S       | NdFeB:N35 | 3.0    | 7.0    |
|       | NDC-M       | NdFeB:N35 | 4.0    | 10.0   |
| NDC-L | NdFeB:N35   | 8.0       | 15.0   |        |

### Bar Magnets

|  | Part Number | Material  | L (mm) | B (mm) | H (mm) |
|--|-------------|-----------|--------|--------|--------|
|  | NDR-T       | NdFeB:N35 | 4.0    | 1.5    | 1.5    |
|  | NDR-S       | NdFeB:N35 | 6.0    | 2.5    | 2.5    |
|  | NDR-M       | NdFeB:N35 | 8.0    | 3.0    | 3.0    |
|  | NDR-L       | NdFeB:N35 | 19.0   | 4.0    | 4.0    |

### Magnet Material Specifications

| Magnet Type |       | Remanance<br>Br (mT) | Coercivity |            | Energy Product max.<br>BH (kJ/m <sup>3</sup> ) | Operating<br>Temperature<br>(°C) |
|-------------|-------|----------------------|------------|------------|--|----------------------------------|
| Composition | Code  |                      | HcB (kA/m) | HcJ (kA/m) |  |                                  |
| Ferrite     | C8    | 385                  | 235        | 242        | 27.8   | 300                              |
| AlNiCo      | LNG37 | 1180                 | 48         | 53         | 37   | 550                              |
| NdFeB       | N35   | 1180                 | 880        | 955        | 270  | 80                               |
| NdFeB       | N35SH | 1180                 | 880        | 1353       | 270  | 120                              |
| SmCo        | YX20  | 925                  | 680        | 1595       | 160  | 300                              |

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30 August 2006