

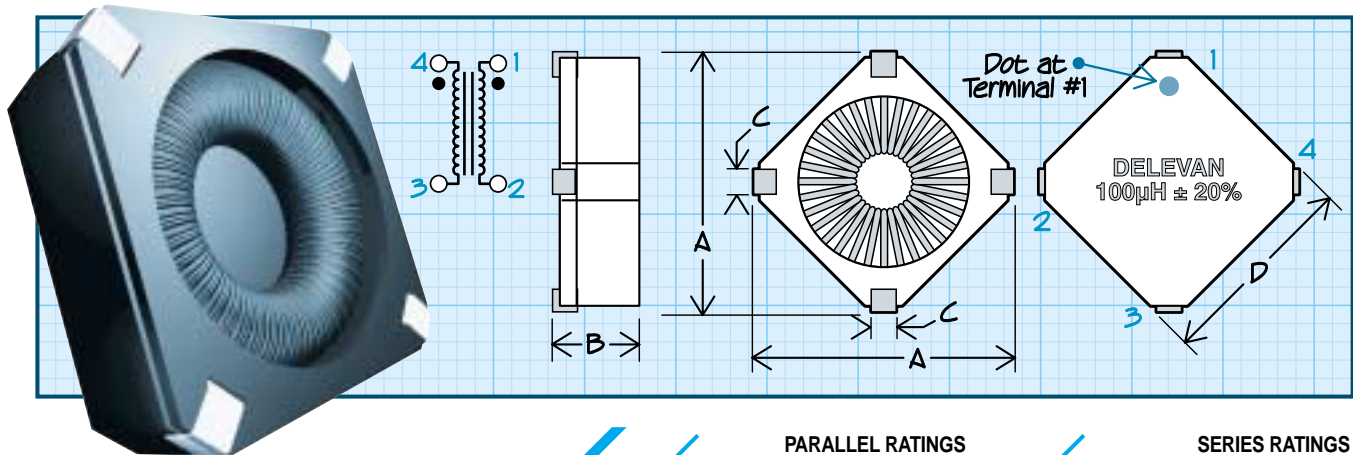
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Surface Mount Toroids



POWER INDUCTORS

• **Application Versatility**

Coupled inductors;  
 1:1 isolation transformers

• **UL94VO Header Material**

• **Low EMI Radiation**

**Lead Pad Coplanarity Max.**

0.002 inches; 0.05 mm

**Inductance values**

from 0.49 µH to 300 µH

**Physical Parameters**

|   | Inches        | Millimeters  |
|---|---------------|--------------|
| A | 0.594 ± 0.015 | 15.09 ± 0.38 |
| B | 0.250 Max.    | 6.35 Max.    |
| C | 0.070 ± 0.020 | 1.78 ± 0.51  |
| D | 0.450 ± 0.020 | 11.43 ± 0.51 |
| E | 0.520         | 13.21        |
| F | 0.520         | 13.21        |
| G | 0.120 Sq.     | 3.05 Sq.     |

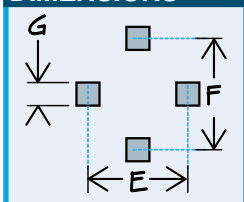
**Weight Max. (Grams) 2.0**

**Soldering** Internal solder connections  
 use high temperature solder

\*Complete part # must include series  
 # PLUS the dash #

For further surface finish  
 information, refer to TECHNICAL  
 section of this catalog.

**LAND PATTERN  
 DIMENSIONS**



| DASH NUMBER*                               | PARALLEL RATINGS                                |                            |  |                                 | SERIES RATINGS                                  |                            |  |                                 |
|--|---|----------------------------|--|---------------------------------|---|----------------------------|--|---------------------------------|
|  | OPEN CIRCUIT<br>INDUCTANCE (µH)<br>@ 1KHz ± 20% | FULL LOAD<br>CURRENT ADC** | FULL LOAD<br>INDUCTANCE (µH)<br>REF. @ 1 KHz | DC RESISTANCE<br>NOMINAL (Ohms) | OPEN CIRCUIT<br>INDUCTANCE (µH)<br>@ 1KHz ± 20% | FULL LOAD<br>CURRENT ADC** | FULL LOAD<br>INDUCTANCE (µH)<br>REF. @ 1 KHz | DC RESISTANCE<br>NOMINAL (Ohms) |
| <b>SERIES CMT4545 FERROUS ALLOY</b>        |   |                            |  |                                 |   |                            |  |                                 |
| -00M                                       | 0.49  | 8.7                        | 0.37   | 0.004                           | 2.00  | 4.4                        | 1.48   | 0.016                           |
| -02M                                       | 0.87  | 7.8                        | 0.63   | 0.005                           | 3.50  | 3.9                        | 2.52   | 0.020                           |
| -04M                                       | 1.50  | 7.1                        | 0.89   | 0.006                           | 5.40  | 3.6                        | 3.56   | 0.024                           |
| -06M                                       | 2.00  | 6.6                        | 1.21   | 0.007                           | 7.80  | 3.3                        | 4.84   | 0.028                           |
| -08M                                       | 5.60  | 4.7                        | 3.08   | 0.014                           | 22.0  | 2.3                        | 12.3   | 0.056                           |
| -10M                                       | 8.20  | 4.4                        | 4.05   | 0.016                           | 31.2  | 2.2                        | 16.2   | 0.064                           |
| -12M                                       | 10  | 3.9                        | 5.41   | 0.020                           | 42.4  | 2.0                        | 21.6   | 0.080                           |
| -14M                                       | 15  | 3.6                        | 7.03   | 0.024                           | 62.5  | 1.8                        | 28.1   | 0.096                           |
| -16M                                       | 22  | 2.6                        | 11.2   | 0.045                           | 86.5  | 1.3                        | 45.0   | 0.180                           |
| -18M                                       | 27  | 2.5                        | 13.1   | 0.049                           | 105   | 1.2                        | 52.3   | 0.196                           |
| -20M                                       | 33  | 2.3                        | 15.9   | 0.056                           | 135   | 1.2                        | 63.5   | 0.224                           |
| -22M                                       | 50  | 1.9                        | 24.4   | 0.086                           | 208   | 0.94                       | 97.7   | 0.344                           |
| -24M                                       | 68  | 1.7                        | 31.5   | 0.101                           | 280   | 0.87                       | 126  | 0.404                           |
| -26M                                       | 75  | 1.6                        | 34.8   | 0.125                           | 300   | 0.78                       | 139  | 0.500                           |
| -28M                                       | 100   | 1.4                        | 46.1   | 0.152                           | 420   | 0.71                       | 184  | 0.608                           |
| -30M                                       | 150   | 1.0                        | 79.0   | 0.300                           | 610   | 0.51                       | 316  | 1.200                           |
| -32M                                       | 200   | 0.94                       | 96.6   | 0.343                           | 805   | 0.47                       | 386  | 1.372                           |
| -34M                                       | 250   | 0.79                       | 130  | 0.486                           | 1000  | 0.40                       | 520  | 1.944                           |
| -36M                                       | 300   | 0.75                       | 146  | 0.536                           | 1200  | 0.38                       | 584  | 2.144                           |
| <b>SERIES CMT4545 HIGH SATURATION CORE</b> |   |                            |  |                                 |   |                            |  |                                 |
| -100M                                      | 0.49  | 8.7                        | 0.45   | 0.004                           | 2.00  | 4.4                        | 1.80   | 0.016                           |
| -102M                                      | 0.87  | 7.8                        | 0.77   | 0.005                           | 3.50  | 3.9                        | 3.08   | 0.020                           |
| -104M                                      | 1.50  | 7.1                        | 1.16   | 0.006                           | 5.40  | 3.6                        | 4.64   | 0.024                           |
| -106M                                      | 2.00  | 6.6                        | 1.62   | 0.007                           | 7.80  | 3.3                        | 6.48   | 0.028                           |
| -108M                                      | 5.60  | 4.7                        | 4.38   | 0.014                           | 22.0  | 2.3                        | 17.5   | 0.056                           |
| -110M                                      | 8.20  | 4.4                        | 6.08   | 0.016                           | 31.2  | 2.2                        | 24.3   | 0.064                           |
| -112M                                      | 10  | 3.9                        | 7.63   | 0.020                           | 42.4  | 2.0                        | 30.5   | 0.080                           |
| -114M                                      | 15  | 3.6                        | 10.8   | 0.024                           | 62.5  | 1.8                        | 43.1   | 0.096                           |
| -116M                                      | 22  | 2.6                        | 15.6   | 0.045                           | 86.5  | 1.3                        | 62.2   | 0.180                           |
| -118M                                      | 27  | 2.5                        | 18.8   | 0.049                           | 105   | 1.2                        | 75.4   | 0.196                           |
| -120M                                      | 33  | 2.3                        | 24.0   | 0.056                           | 135   | 1.2                        | 96.0   | 0.224                           |
| -122M                                      | 50  | 1.9                        | 36.9   | 0.086                           | 208   | 0.94                       | 148  | 0.344                           |
| -124M                                      | 68  | 1.7                        | 49.0   | 0.101                           | 280   | 0.87                       | 196  | 0.404                           |
| -126M                                      | 75  | 1.6                        | 52.6   | 0.125                           | 300   | 0.78                       | 210  | 0.500                           |
| -128M                                      | 100   | 1.4                        | 72.2   | 0.152                           | 420   | 0.71                       | 289  | 0.608                           |
| -130M                                      | 150   | 1.0                        | 108  | 0.300                           | 610   | 0.51                       | 431  | 1.200                           |
| -132M                                      | 200   | 0.94                       | 143  | 0.343                           | 805   | 0.47                       | 571  | 1.372                           |
| -134M                                      | 250   | 0.79                       | 182  | 0.486                           | 1000  | 0.40                       | 730  | 1.944                           |
| -136M                                      | 300   | 0.75                       | 216  | 0.536                           | 1200  | 0.38                       | 864  | 2.144                           |

\*\* Note The full load current is the current rating that will cause a maximum temperature rise of 35°C from a 90°C ambient