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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. |

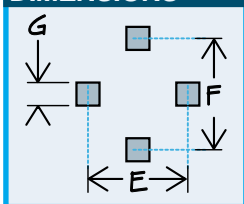
Weight Max. (Grams) 2.0

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 INDUCTANCE (µH) @ 1KHz ± 20% | FULL LOAD CURRENT ADC** | FULL LOAD INDUCTANCE (µH) REF. @ 1 KHz | DC RESISTANCE NOMINAL (Ohms) | OPEN CIRCUIT INDUCTANCE (µH) @ 1KHz ± 20% | FULL LOAD CURRENT ADC** | FULL LOAD INDUCTANCE (µH) REF. @ 1 KHz | DC RESISTANCE NOMINAL (Ohms) |
| SERIES CMT4545 FERROUS ALLOY | | | | | | | | |
| -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 |
| SERIES CMT4545 HIGH SATURATION CORE | | | | | | | | |
| -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