

SPECIFICATIONS

Customer : _____

Customer P/N: _____ **MSCD Series** _____

Drawing No : _____

Quantity : 0 Pcs. Date : 2017/09/06

Chilisin P/N : _____ **MSCD Series/参照** _____

| | |
|----------------------------|--|
| SPECIFICATION | |
| ACCEPTED BY: | |
| COMPONENT ENGINEER | |
| ELECTRICAL ENGINEER | |
| MECHANICAL ENGINEER | |
| APPROVED | |
| REJECTED | |

For Customer approval Only

Qualification Status: Full Restricted Rejected

| Approved By | Verified By | Re-checked By | Checked By |
|-------------|-------------|---------------|------------|
| | | | |

Comments: _____

Meled Electronics Co., Ltd.

www.meledinc.com

Version change history

| Rev. | Effective Date | Changed Contents | Change Reasons | Approved By |
|------|----------------|------------------|----------------|-------------|
| 01 | / | New release | / | / |

1. Features

- High saturation current
- Magnetic shielded
- SMT type, suitable for reflow soldering.



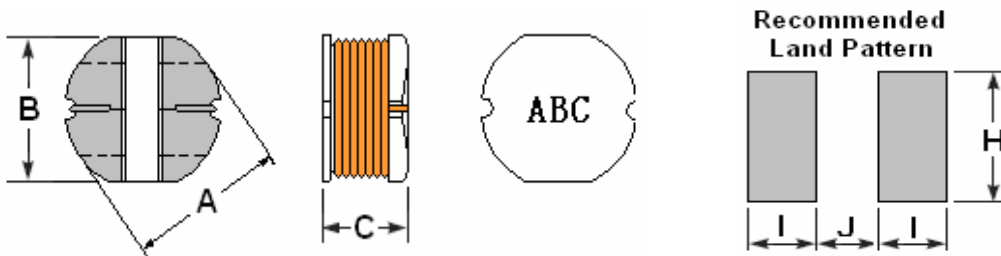
2. APPLICATIONS

- OA equipment, Notebook Computer
- LCD televisions
- DC/DC converters etc.

3. PRODUCT IDENTIFICATION



4. Shape and Dimensions



Unit: mm

| Series | A | B | C | I typ. | J typ. | H typ. |
|---------|----------|----------|---------|--------|--------|--------|
| MSCD31 | 3.5±0.15 | 3.0±0.15 | 1.6±0.3 | 1.6 | 0.8 | 3.5 |
| MSCD32 | 3.5±0.3 | 3.0±0.3 | 2.1±0.3 | 1.6 | 0.8 | 3.5 |
| MSCD42 | 4.5±0.3 | 4.0±0.3 | 2.0±0.3 | 1.9 | 1.2 | 4.5 |
| MSCD43 | 4.5±0.3 | 4.0±0.3 | 3.2±0.3 | 1.9 | 1.2 | 4.5 |
| MSCD52 | 5.8±0.3 | 5.2±0.3 | 2.0±0.3 | 2.2 | 1.6 | 5.4 |
| MSCD53 | 5.8±0.3 | 5.2±0.3 | 3.0±0.3 | 2.2 | 1.6 | 5.4 |
| MSCD54 | 5.8±0.3 | 5.2±0.3 | 4.5±0.3 | 2.2 | 1.6 | 5.4 |
| MSCD73 | 7.8±0.3 | 7.0±0.3 | 3.5±0.3 | 3.0 | 2.0 | 7.5 |
| MSCD75 | 7.8±0.3 | 7.0±0.3 | 5.0±0.3 | 3.0 | 2.0 | 7.5 |
| MSCD104 | 10.0±0.3 | 9.0±0.3 | 4.0±0.3 | 3.75 | 2.5 | 9.5 |
| MSCD105 | 10.0±0.3 | 9.0±0.3 | 5.4±0.3 | 3.75 | 2.5 | 9.5 |

Appendix A: Electrical Characteristics

I. MSCD31 TYPE INDUCTORS ELECTRICAL CHARACTERISTICS&TEST CONDITIONS

| Part Number | L(μ H) | Tolerance | Test Freq. | DCR(Ω)Max | Isat(A) |
|--------------|-------------|------------|--------------|--------------------|---------|
| MSCD31-1R0MT | 1.0 | $\pm 20\%$ | 100 kHz,0.3V | 0.058 | 1.60 |
| MSCD31-1R5MT | 1.5 | $\pm 20\%$ | 100 kHz,0.3V | 0.078 | 1.55 |
| MSCD31-2R2MT | 2.2 | $\pm 20\%$ | 100 kHz,0.3V | 0.100 | 1.47 |
| MSCD31-3R3MT | 3.3 | $\pm 20\%$ | 100 kHz,0.3V | 0.126 | 1.34 |
| MSCD31-4R7MT | 4.7 | $\pm 20\%$ | 100kHz,0.3V | 0.158 | 1.22 |
| MSCD31-5R6MT | 5.6 | $\pm 20\%$ | 100 kHz,0.3V | 0.186 | 1.09 |
| MSCD31-6R8MT | 6.8 | $\pm 20\%$ | 100 kHz,0.3V | 0.213 | 0.96 |
| MSCD31-8R2MT | 8.2 | $\pm 20\%$ | 100kHz,0.3V | 0.238 | 0.84 |
| MSCD31-100KT | 10 | $\pm 10\%$ | 1kHz,0.3V | 0.307 | 0.70 |
| MSCD31-150KT | 15 | $\pm 10\%$ | 1kHz,0.3V | 0.466 | 0.59 |
| MSCD31-220KT | 22 | $\pm 10\%$ | 1kHz,0.3V | 0.656 | 0.48 |
| MSCD31-270KT | 27 | $\pm 10\%$ | 1kHz,0.3V | 0.774 | 0.43 |
| MSCD31-330KT | 33 | $\pm 10\%$ | 1kHz,0.3V | 1.021 | 0.37 |
| MSCD31-390KT | 39 | $\pm 10\%$ | 1kHz,0.3V | 1.122 | 0.32 |
| MSCD31-470KT | 47 | $\pm 10\%$ | 1kHz,0.3V | 1.509 | 0.26 |
| MSCD31-560KT | 56 | $\pm 10\%$ | 1kHz,0.3V | 1.675 | 0.24 |

II. MSCD32TYPEINDUCTORSELECTRICALCHARACTERISTICS&TESTCONDITIONS

| Part Number | L(μ H) | Tolerance | Test Freq. | DCR(Ω)Max | Isat(A) |
|--------------|-------------|------------|--------------|--------------------|---------|
| MSCD32-1R0MT | 1.0 | $\pm 20\%$ | 100 kHz,0.3V | 0.048 | 1.75 |
| MSCD32-1R5MT | 1.5 | $\pm 20\%$ | 100 kHz,0.3V | 0.060 | 1.85 |
| MSCD32-1R8MT | 1.8 | $\pm 20\%$ | 100 kHz,0.3V | 0.070 | 1.70 |
| MSCD32-2R2MT | 2.2 | $\pm 20\%$ | 100 kHz,0.3V | 0.072 | 1.68 |
| MSCD32-2R7MT | 2.7 | $\pm 20\%$ | 100kHz,0.3V | 0.090 | 1.55 |
| MSCD32-3R3MT | 3.3 | $\pm 20\%$ | 100 kHz,0.3V | 0.108 | 1.58 |
| MSCD32-3R9MT | 3.9 | $\pm 20\%$ | 100 kHz,0.3V | 0.115 | 1.30 |
| MSCD32-4R7MT | 4.7 | $\pm 20\%$ | 100kHz,0.3V | 0.172 | 1.50 |
| MSCD32-5R6MT | 5.6 | $\pm 20\%$ | 100 kHz,0.3V | 0.192 | 1.36 |
| MSCD32-6R8MT | 6.8 | $\pm 20\%$ | 100 kHz,0.3V | 0.219 | 1.22 |
| MSCD32-8R2MT | 8.2 | $\pm 20\%$ | 100kHz,0.3V | 0.247 | 1.09 |
| MSCD32-100KT | 10 | $\pm 10\%$ | 1kHz,0.3V | 0.286 | 0.95 |
| MSCD32-120KT | 12 | $\pm 10\%$ | 1kHz,0.3V | 0.325 | 0.88 |
| MSCD32-150KT | 15 | $\pm 10\%$ | 1kHz,0.3V | 0.468 | 0.82 |
| MSCD32-180KT | 18 | $\pm 10\%$ | 1kHz,0.3V | 0.546 | 0.76 |
| MSCD32-220KT | 22 | $\pm 10\%$ | 1kHz,0.3V | 0.650 | 0.63 |
| MSCD32-270KT | 27 | $\pm 10\%$ | 1kHz,0.3V | 0.850 | 0.62 |
| MSCD32-330KT | 33 | $\pm 10\%$ | 1kHz,0.3V | 0.962 | 0.56 |
| MSCD32-390KT | 39 | $\pm 10\%$ | 1kHz,0.3V | 1.05 | 0.51 |
| MSCD32-470KT | 47 | $\pm 10\%$ | 1kHz,0.3V | 1.25 | 0.47 |
| MSCD32-560KT | 56 | $\pm 10\%$ | 1kHz,0.3V | 1.59 | 0.42 |
| MSCD32-680KT | 68 | $\pm 10\%$ | 1kHz,0.3V | 1.82 | 0.38 |
| MSCD32-820KT | 82 | $\pm 10\%$ | 1kHz,0.3V | 2.44 | 0.34 |
| MSCD32-101KT | 100 | $\pm 10\%$ | 1kHz,0.3V | 2.84 | 0.31 |
| MSCD32-151KT | 150 | $\pm 10\%$ | 1kHz,0.3V | 2.62 | 0.25 |

III. MSCD42 TYPE INDUCTORS ELECTRICAL CHARACTERISTICS & TEST CONDITIONS

| Part Number | L(μ H) | Tolerance | Test Freq. | DCR(Ω)Max | Isat(A) |
|--------------|--------|-----------|-------------|-----------|---------|
| MSCD42-1R0MT | 1.0 | ±20% | 100kHz,0.3V | 0.050 | 3.00 |
| MSCD42-1R5MT | 1.5 | ±20% | 100kHz,0.3V | 0.055 | 2.80 |
| MSCD42-2R2MT | 2.2 | ±20% | 100kHz,0.3V | 0.065 | 1.50 |
| MSCD42-3R3MT | 3.3 | ±20% | 100kHz,0.3V | 0.078 | 1.35 |
| MSCD42-4R7MT | 4.7 | ±20% | 100kHz,0.3V | 0.095 | 1.20 |
| MSCD42-6R8MT | 6.8 | ±20% | 100kHz,0.3V | 0.125 | 1.10 |
| MSCD42-8R2MT | 8.2 | ±20% | 100kHz,0.3V | 0.150 | 1.02 |
| MSCD42-100KT | 10 | ±10% | 1kHz,0.3V | 0.180 | 0.90 |
| MSCD42-150KT | 15 | ±10% | 1kHz,0.3V | 0.470 | 0.82 |
| MSCD42-180KT | 18 | ±10% | 1kHz,0.3V | 0.480 | 0.75 |
| MSCD42-220KT | 22 | ±10% | 1kHz,0.3V | 0.450 | 0.60 |
| MSCD42-260KT | 26 | ±10% | 1kHz,0.3V | 0.470 | 0.55 |
| MSCD42-330KT | 33 | ±10% | 1kHz,0.3V | 0.500 | 0.54 |
| MSCD42-390KT | 39 | ±10% | 1kHz,0.3V | 0.700 | 0.50 |
| MSCD42-470KT | 47 | ±10% | 1kHz,0.3V | 0.800 | 0.48 |
| MSCD42-560KT | 56 | ±10% | 1kHz,0.3V | 0.900 | 0.45 |
| MSCD42-101KT | 100 | ±10% | 1kHz,0.3V | 1.500 | 0.10 |
| MSCD42-151KT | 150 | ±10% | 1kHz,0.3V | 2.300 | 0.09 |

III. MSCD43 TYPE INDUCTORS ELECTRICAL CHARACTERISTICS & TEST CONDITIONS

| Part Number | L(μ H) | Tolerance | Test Freq. | DCR(Ω)Max | Isat(A) |
|--------------|--------|-----------|-------------|-----------|---------|
| MSCD43-1R0MT | 1.0 | ±20% | 100kHz,0.3V | 0.033 | 2.85 |
| MSCD43-1R5MT | 1.5 | ±20% | 100kHz,0.3V | 0.055 | 2.20 |
| MSCD43-2R2MT | 2.2 | ±20% | 100kHz,0.3V | 0.047 | 1.95 |
| MSCD43-3R3MT | 3.3 | ±20% | 100kHz,0.3V | 0.058 | 1.84 |
| MSCD43-3R9MT | 3.9 | ±20% | 100kHz,0.3V | 0.090 | 1.70 |
| MSCD43-4R7MT | 4.7 | ±20% | 100kHz,0.3V | 0.094 | 1.70 |
| MSCD43-5R6MT | 5.6 | ±20% | 100kHz,0.3V | 0.120 | 1.60 |
| MSCD43-6R8MT | 6.8 | ±20% | 100kHz,0.3V | 0.117 | 1.41 |
| MSCD43-8R2MT | 8.2 | ±20% | 100kHz,0.3V | 0.132 | 1.26 |
| MSCD43-100KT | 10 | ±10% | 1kHz,0.3V | 0.182 | 1.15 |
| MSCD43-120KT | 12 | ±10% | 1kHz,0.3V | 0.210 | 1.05 |
| MSCD43-150KT | 15 | ±10% | 1kHz,0.3V | 0.235 | 0.92 |
| MSCD43-180KT | 18 | ±10% | 1kHz,0.3V | 0.338 | 0.84 |
| MSCD43-220KT | 22 | ±10% | 1kHz,0.3V | 0.378 | 0.76 |
| MSCD43-270KT | 27 | ±10% | 1kHz,0.3V | 0.522 | 0.71 |
| MSCD43-330KT | 33 | ±10% | 1kHz,0.3V | 0.540 | 0.64 |
| MSCD43-390KT | 39 | ±10% | 1kHz,0.3V | 0.650 | 0.59 |
| MSCD43-470KT | 47 | ±10% | 1kHz,0.3V | 0.844 | 0.54 |
| MSCD43-560KT | 56 | ±10% | 1kHz,0.3V | 0.937 | 0.50 |
| MSCD43-680KT | 68 | ±10% | 1kHz,0.3V | 1.117 | 0.46 |
| MSCD43-820KT | 82 | ±10% | 1kHz,0.3V | 1.180 | 0.43 |
| MSCD43-101KT | 100 | ±10% | 1kHz,0.3V | 1.190 | 0.41 |
| MSCD43-151KT | 150 | ±10% | 1kHz,0.3V | 1.40 | 0.35 |
| MSCD43-221KT | 220 | ±10% | 1kHz,0.3V | 2.26 | 0.29 |
| MSCD43-331KT | 330 | ±10% | 1kHz,0.3V | 4.50 | 0.20 |
| MSCD43-471KT | 470 | ±10% | 1kHz,0.3V | 5.50 | 0.16 |
| MSCD43-561KT | 560 | ±10% | 1kHz,0.3V | 6.00 | 0.14 |
| MSCD43-681KT | 680 | ±10% | 1kHz,0.3V | 6.80 | 0.13 |
| MSCD43-821KT | 820 | ±10% | 1kHz,0.3V | 8.00 | 0.12 |
| MSCD43-102KT | 1000 | ±10% | 1kHz,0.3V | 15.6 | 0.14 |

III. MSCD52 TYPE INDUCTORS ELECTRICAL CHARACTERISTICS & TEST CONDITIONS

| Part Number | L(μH) | Tolerance | Test Freq. | DCR(Ω)Max | Isat(A) |
|--------------|-------|-----------|-------------|-----------|---------|
| MSCD52-1R0MT | 1.0 | ±20% | 100kHz,0.3V | 0.050 | 3.20 |
| MSCD52-1R5MT | 1.5 | ±20% | 100kHz,0.3V | 0.065 | 3.00 |
| MSCD52-2R2MT | 2.2 | ±20% | 100kHz,0.3V | 0.080 | 2.80 |
| MSCD52-3R3MT | 3.3 | ±20% | 100kHz,0.3V | 0.120 | 2.40 |
| MSCD52-4R7MT | 4.7 | ±20% | 100kHz,0.3V | 0.150 | 1.80 |
| MSCD52-5R6MT | 5.6 | ±20% | 100kHz,0.3V | 0.160 | 1.50 |
| MSCD52-100KT | 10 | ±10% | 1kHz,0.3V | 0.230 | 1.10 |
| MSCD52-150KT | 15 | ±10% | 1kHz,0.3V | 0.300 | 1.00 |
| MSCD52-220KT | 22 | ±10% | 1kHz,0.3V | 0.400 | 0.85 |
| MSCD52-330KT | 33 | ±10% | 1kHz,0.3V | 0.550 | 0.70 |
| MSCD52-470KT | 47 | ±10% | 1kHz,0.3V | 0.750 | 0.55 |
| MSCD52-680KT | 68 | ±10% | 1kHz,0.3V | 1.200 | 0.45 |
| MSCD52-101KT | 100 | ±10% | 1kHz,0.3V | 1.750 | 0.35 |
| MSCD52-151KT | 150 | ±10% | 1kHz,0.3V | 2.600 | 0.22 |
| MSCD52-221KT | 220 | ±10% | 1kHz,0.3V | 4.000 | 0.19 |
| MSCD52-271KT | 270 | ±10% | 1kHz,0.3V | 4.200 | 0.20 |

IV. MSCD53 TYPE INDUCTORS ELECTRICAL CHARACTERISTICS & TEST CONDITIONS

| Part Number | L(μH) | Tolerance | Test Freq. | DCR(Ω)Max | Isat(A) |
|--------------|-------|-----------|-------------|-----------|---------|
| MSCD53-1R0MT | 1.0 | ±20% | 100kHz,0.3V | 0.038 | 4.50 |
| MSCD53-1R5MT | 1.5 | ±20% | 100kHz,0.3V | 0.041 | 4.00 |
| MSCD53-2R2MT | 2.2 | ±20% | 100kHz,0.3V | 0.045 | 3.50 |
| MSCD53-3R3MT | 3.3 | ±20% | 100kHz,0.3V | 0.055 | 2.80 |
| MSCD53-4R7MT | 4.7 | ±20% | 100kHz,0.3V | 0.072 | 2.50 |
| MSCD53-6R8MT | 6.8 | ±20% | 100kHz,0.3V | 0.090 | 2.20 |
| MSCD53-8R2MT | 8.2 | ±20% | 100kHz,0.3V | 0.100 | 2.00 |
| MSCD53-100KT | 10 | ±10% | 1kHz,0.3V | 0.120 | 1.80 |
| MSCD53-150KT | 15 | ±10% | 1kHz,0.3V | 0.150 | 1.70 |
| MSCD53-220KT | 22 | ±10% | 1kHz,0.3V | 0.220 | 1.50 |
| MSCD53-270KT | 27 | ±10% | 1kHz,0.3V | 0.240 | 1.40 |
| MSCD53-330KT | 33 | ±10% | 1kHz,0.3V | 0.300 | 1.10 |
| MSCD53-470KT | 47 | ±10% | 1kHz,0.3V | 0.430 | 0.90 |
| MSCD53-680KT | 68 | ±10% | 1kHz,0.3V | 0.600 | 0.80 |
| MSCD53-101KT | 100 | ±10% | 1kHz,0.3V | 0.900 | 0.60 |
| MSCD53-151KT | 150 | ±10% | 1kHz,0.3V | 1.300 | 0.43 |
| MSCD53-181KT | 180 | ±10% | 1kHz,0.3V | 1.500 | 0.41 |
| MSCD53-221KT | 220 | ±10% | 1kHz,0.3V | 2.000 | 0.38 |
| MSCD53-331KT | 330 | ±10% | 1kHz,0.3V | 3.200 | 0.28 |

VI. MSCD54 TYPE INDUCTORS ELECTRICAL CHARACTERISTICS & TEST CONDITIONS

| Part Number | L(μH) | Tolerance | Test Freq. | DCR(Ω)Max | Isat(A) |
|--------------|-------|-----------|-------------|-----------|---------|
| MSCD54-R47MT | 0.47 | ±20% | 100kHz,0.3V | 0.012 | 4.80 |
| MSCD54-1R0MT | 1.0 | ±20% | 100kHz,0.3V | 0.020 | 4.00 |
| MSCD54-1R5MT | 1.5 | ±20% | 100kHz,0.3V | 0.025 | 3.80 |
| MSCD54-2R2MT | 2.2 | ±20% | 100kHz,0.3V | 0.027 | 3.50 |
| MSCD54-3R3MT | 3.3 | ±20% | 100kHz,0.3V | 0.034 | 3.00 |
| MSCD54-4R7MT | 4.7 | ±20% | 100kHz,0.3V | 0.040 | 2.80 |
| MSCD54-6R8MT | 6.8 | ±20% | 100kHz,0.3V | 0.080 | 2.50 |
| MSCD54-8R2MT | 8.2 | ±20% | 100kHz,0.3V | 0.090 | 2.10 |
| MSCD54-100KT | 10 | ±10% | 1kHz,0.3V | 0.100 | 1.50 |

VI. MSCD54 TYPE INDUCTORS ELECTRICAL CHARACTERISTICS & TEST CONDITIONS

| Part Number | L(μH) | Tolerance | Test Freq. | DCR(Ω)Max | Isat(A) |
|--------------|-------|-----------|------------|-----------|---------|
| MSCD54-120KT | 12 | ±10% | 1kHz,0.3V | 0.120 | 1.40 |
| MSCD54-150KT | 15 | ±10% | 1kHz,0.3V | 0.140 | 1.30 |
| MSCD54-180KT | 18 | ±10% | 1kHz,0.3V | 0.150 | 1.23 |
| MSCD54-220KT | 22 | ±10% | 1kHz,0.3V | 0.180 | 1.11 |
| MSCD54-270KT | 27 | ±10% | 1kHz,0.3V | 0.200 | 0.97 |
| MSCD54-330KT | 33 | ±10% | 1kHz,0.3V | 0.230 | 0.88 |
| MSCD54-390KT | 39 | ±10% | 1kHz,0.3V | 0.320 | 0.80 |
| MSCD54-470KT | 47 | ±10% | 1kHz,0.3V | 0.370 | 0.72 |
| MSCD54-560KT | 56 | ±10% | 1kHz,0.3V | 0.420 | 0.68 |
| MSCD54-680KT | 68 | ±10% | 1kHz,0.3V | 0.460 | 0.61 |
| MSCD54-820KT | 82 | ±10% | 1kHz,0.3V | 0.600 | 0.58 |
| MSCD54-101KT | 100 | ±10% | 1kHz,0.3V | 0.700 | 0.52 |
| MSCD54-121KT | 120 | ±10% | 1kHz,0.3V | 0.930 | 0.48 |
| MSCD54-151KT | 150 | ±10% | 1kHz,0.3V | 1.100 | 0.40 |
| MSCD54-181KT | 180 | ±10% | 1kHz,0.3V | 1.380 | 0.38 |
| MSCD54-221KT | 220 | ±10% | 1kHz,0.3V | 1.570 | 0.35 |
| MSCD54-331KT | 330 | ±10% | 1kHz,0.3V | 3.000 | 0.22 |
| MSCD54-471KT | 470 | ±10% | 1kHz,0.3V | 4.000 | 0.19 |
| MSCD54-561KT | 560 | ±10% | 1kHz,0.3V | 4.000 | 0.18 |
| MSCD54-681KT | 680 | ±10% | 1kHz,0.3V | 4.500 | 0.15 |
| MSCD54-821KT | 820 | ±10% | 1kHz,0.3V | 5.200 | 0.17 |
| MSCD54-102KT | 1000 | ±10% | 1kHz,0.3V | 5.500 | 0.15 |

V. MSCD73 TYPE INDUCTORS ELECTRICAL CHARACTERISTICS & TEST CONDITIONS

| Part Number | L(μH) | Tolerance | Test Freq. | DCR(Ω)Max | Isat(A) |
|--------------|-------|-----------|-------------|-----------|---------|
| MSCD73-1R0MT | 1.0 | ±20% | 100kHz,0.3V | 0.018 | 5.50 |
| MSCD73-2R2MT | 2.2 | ±20% | 100kHz,0.3V | 0.023 | 4.50 |
| MSCD73-2R5MT | 2.5 | ±20% | 100kHz,0.3V | 0.023 | 4.20 |
| MSCD73-3R3MT | 3.3 | ±20% | 100kHz,0.3V | 0.025 | 4.00 |
| MSCD73-4R7MT | 4.7 | ±20% | 100kHz,0.3V | 0.039 | 3.50 |
| MSCD73-6R8MT | 6.8 | ±20% | 100kHz,0.3V | 0.040 | 2.80 |
| MSCD73-100KT | 10 | ±10% | 1kHz,0.3V | 0.080 | 1.44 |
| MSCD73-120KT | 12 | ±10% | 1kHz,0.3V | 0.090 | 1.39 |
| MSCD73-150KT | 15 | ±10% | 1kHz,0.3V | 0.100 | 1.24 |
| MSCD73-180KT | 18 | ±10% | 1kHz,0.3V | 0.110 | 1.12 |
| MSCD73-220KT | 22 | ±10% | 1kHz,0.3V | 0.130 | 1.07 |
| MSCD73-270KT | 27 | ±10% | 1kHz,0.3V | 0.150 | 0.94 |
| MSCD73-330KT | 33 | ±10% | 1kHz,0.3V | 0.170 | 0.85 |
| MSCD73-390KT | 39 | ±10% | 1kHz,0.3V | 0.220 | 0.74 |
| MSCD73-470KT | 47 | ±10% | 1kHz,0.3V | 0.250 | 0.68 |
| MSCD73-560KT | 56 | ±10% | 1kHz,0.3V | 0.280 | 0.64 |
| MSCD73-680KT | 68 | ±10% | 1kHz,0.3V | 0.330 | 0.59 |
| MSCD73-820KT | 82 | ±10% | 1kHz,0.3V | 0.410 | 0.54 |
| MSCD73-101KT | 100 | ±10% | 1kHz,0.3V | 0.480 | 0.51 |
| MSCD73-121KT | 120 | ±10% | 1kHz,0.3V | 0.540 | 0.49 |
| MSCD73-151KT | 150 | ±10% | 1kHz,0.3V | 0.600 | 0.45 |
| MSCD73-181KT | 180 | ±10% | 1kHz,0.3V | 0.720 | 0.40 |
| MSCD73-221KT | 220 | ±10% | 1kHz,0.3V | 1.200 | 0.45 |
| MSCD73-271KT | 270 | ±10% | 1kHz,0.3V | 1.300 | 0.37 |
| MSCD73-331KT | 330 | ±10% | 1kHz,0.3V | 1.490 | 0.35 |
| MSCD73-471KT | 470 | ±10% | 1kHz,0.3V | 2.200 | 0.30 |
| MSCD73-561KT | 560 | ±10% | 1kHz,0.3V | 2.400 | 0.25 |

VII. MSCD75 TYPE INDUCTORS ELECTRICAL CHARACTERISTICS & TEST CONDITIONS

| Part Number | L(μ H) | Tolerance | Test Freq. | DCR(Ω)Max | Isat(A) |
|--------------|--------|-----------|-------------|-----------|---------|
| MSCD75-1R0MT | 1.0 | ±20% | 100kHz,0.3V | 0.019 | 5.80 |
| MSCD75-1R5MT | 1.5 | ±20% | 100kHz,0.3V | 0.028 | 5.30 |
| MSCD75-2R2MT | 2.2 | ±20% | 100kHz,0.3V | 0.035 | 4.50 |
| MSCD75-3R3MT | 3.3 | ±20% | 100kHz,0.3V | 0.045 | 4.00 |
| MSCD75-4R7MT | 4.7 | ±20% | 100kHz,0.3V | 0.058 | 3.20 |
| MSCD75-6R8MT | 6.8 | ±20% | 100kHz,0.3V | 0.070 | 2.80 |
| MSCD75-8R2MT | 8.2 | ±20% | 100kHz,0.3V | 0.075 | 2.50 |
| MSCD75-100KT | 10 | ±10% | 1kHz,0.3V | 0.078 | 2.30 |
| MSCD75-120KT | 12 | ±10% | 1kHz,0.3V | 0.085 | 2.00 |
| MSCD75-150KT | 15 | ±10% | 1kHz,0.3V | 0.090 | 1.80 |
| MSCD75-180KT | 18 | ±10% | 1kHz,0.3V | 0.100 | 1.60 |
| MSCD75-220KT | 22 | ±10% | 1kHz,0.3V | 0.110 | 1.50 |
| MSCD75-270KT | 27 | ±10% | 1kHz,0.3V | 0.120 | 1.30 |
| MSCD75-330KT | 33 | ±10% | 1kHz,0.3V | 0.130 | 1.20 |
| MSCD75-390KT | 39 | ±10% | 1kHz,0.3V | 0.160 | 1.10 |
| MSCD75-470KT | 47 | ±10% | 1kHz,0.3V | 0.180 | 1.00 |
| MSCD75-560KT | 56 | ±10% | 1kHz,0.3V | 0.240 | 0.94 |
| MSCD75-680KT | 68 | ±10% | 1kHz,0.3V | 0.280 | 0.85 |
| MSCD75-820KT | 82 | ±10% | 1kHz,0.3V | 0.370 | 0.78 |
| MSCD75-101KT | 100 | ±10% | 1kHz,0.3V | 0.430 | 0.72 |
| MSCD75-121KT | 120 | ±10% | 1kHz,0.3V | 0.470 | 0.66 |
| MSCD75-151KT | 150 | ±10% | 1kHz,0.3V | 0.640 | 0.58 |
| MSCD75-181KT | 180 | ±10% | 1kHz,0.3V | 0.710 | 0.51 |
| MSCD75-221KT | 220 | ±10% | 1kHz,0.3V | 0.960 | 0.49 |
| MSCD75-271KT | 270 | ±10% | 1kHz,0.3V | 1.110 | 0.42 |
| MSCD75-331KT | 330 | ±10% | 1kHz,0.3V | 1.260 | 0.40 |
| MSCD75-391KT | 390 | ±10% | 1kHz,0.3V | 1.770 | 0.36 |
| MSCD75-471KT | 470 | ±10% | 1kHz,0.3V | 1.960 | 0.34 |
| MSCD75-681KT | 680 | ±10% | 1kHz,0.3V | 2.180 | 0.27 |
| MSCD75-102KT | 1000 | ±10% | 1kHz,0.3V | 3.850 | 0.20 |

VIII. MSCD104 TYPE INDUCTORS ELECTRICAL CHARACTERISTICS & TEST CONDITIONS

| Part Number | L(μ H) | Tolerance | Test Freq. | DCR(Ω)Max | Isat(A) |
|---------------|--------|-----------|-------------|-----------|---------|
| MSCD104-1R0MT | 1.0 | ±20% | 100kHz,0.3V | 0.012 | 6.70 |
| MSCD104-2R2MT | 2.2 | ±20% | 100kHz,0.3V | 0.020 | 5.40 |
| MSCD104-3R3MT | 3.3 | ±20% | 100kHz,0.3V | 0.028 | 3.85 |
| MSCD104-4R7MT | 4.7 | ±20% | 100kHz,0.3V | 0.038 | 3.25 |
| MSCD104-6R8MT | 6.8 | ±20% | 100kHz,0.3V | 0.042 | 2.95 |
| MSCD104-8R2MT | 8.2 | ±20% | 100kHz,0.3V | 0.048 | 2.70 |
| MSCD104-100KT | 10 | ±10% | 1kHz,0.3V | 0.050 | 2.38 |
| MSCD104-120KT | 12 | ±10% | 1kHz,0.3V | 0.060 | 2.10 |
| MSCD104-150KT | 15 | ±10% | 1kHz,0.3V | 0.070 | 1.87 |
| MSCD104-180KT | 18 | ±10% | 1kHz,0.3V | 0.080 | 1.73 |
| MSCD104-220KT | 22 | ±10% | 1kHz,0.3V | 0.090 | 1.60 |
| MSCD104-270KT | 27 | ±10% | 1kHz,0.3V | 0.100 | 1.44 |
| MSCD104-330KT | 33 | ±10% | 1kHz,0.3V | 0.120 | 1.26 |
| MSCD104-390KT | 39 | ±10% | 1kHz,0.3V | 0.150 | 1.20 |
| MSCD104-470KT | 47 | ±10% | 1kHz,0.3V | 0.170 | 1.10 |

IX. MSCD104 TYPE INDUCTORS ELECTRICAL CHARACTERISTICS & TEST CONDITIONS

| Part Number | L(μ H) | Tolerance | Test Freq. | DCR(Ω)Max | Isat(A) |
|---------------|--------|-----------|------------|-----------|---------|
| MSCD104-560KT | 56 | ±10% | 1kHz,0.3V | 0.200 | 1.01 |
| MSCD104-680KT | 68 | ±10% | 1kHz,0.3V | 0.220 | 0.91 |
| MSCD104-820KT | 82 | ±10% | 1kHz,0.3V | 0.250 | 0.85 |
| MSCD104-101KT | 100 | ±10% | 1kHz,0.3V | 0.340 | 0.74 |
| MSCD104-121KT | 120 | ±10% | 1kHz,0.3V | 0.400 | 0.69 |
| MSCD104-151KT | 150 | ±10% | 1kHz,0.3V | 0.540 | 0.61 |
| MSCD104-181KT | 180 | ±10% | 1kHz,0.3V | 0.620 | 0.56 |
| MSCD104-221KT | 220 | ±10% | 1kHz,0.3V | 0.720 | 0.53 |
| MSCD104-271KT | 270 | ±10% | 1kHz,0.3V | 0.950 | 0.45 |
| MSCD104-331KT | 330 | ±10% | 1kHz,0.3V | 1.100 | 0.42 |
| MSCD104-391KT | 390 | ±10% | 1kHz,0.3V | 1.240 | 0.38 |
| MSCD104-471KT | 470 | ±10% | 1kHz,0.3V | 1.530 | 0.35 |
| MSCD104-561KT | 560 | ±10% | 1kHz,0.3V | 1.900 | 0.32 |

X. MSCD105 TYPE INDUCTORS ELECTRICAL CHARACTERISTICS & TEST CONDITIONS

| Part Number | L(μ H) | Tolerance | Test Freq. | DCR(Ω)Max | Isat(A) |
|---------------|--------|-----------|-------------|-----------|---------|
| MSCD105-1R0MT | 1.0 | ±20% | 100kHz,0.3V | 0.010 | 8.63 |
| MSCD105-2R2MT | 2.2 | ±20% | 100kHz,0.3V | 0.017 | 7.20 |
| MSCD105-3R3MT | 3.3 | ±20% | 100kHz,0.3V | 0.019 | 6.50 |
| MSCD105-4R7MT | 4.7 | ±20% | 100kHz,0.3V | 0.022 | 5.50 |
| MSCD105-6R8MT | 6.8 | ±20% | 100kHz,0.3V | 0.040 | 4.50 |
| MSCD105-8R2MT | 8.2 | ±20% | 100kHz,0.3V | 0.050 | 3.50 |
| MSCD105-100KT | 10 | ±10% | 1kHz,0.3V | 0.060 | 2.60 |
| MSCD105-120KT | 12 | ±10% | 1kHz,0.3V | 0.062 | 2.10 |
| MSCD105-150KT | 15 | ±10% | 1kHz,0.3V | 0.070 | 1.72 |
| MSCD105-180KT | 18 | ±10% | 1kHz,0.3V | 0.080 | 1.58 |
| MSCD105-220KT | 22 | ±10% | 1kHz,0.3V | 0.090 | 1.42 |
| MSCD105-270KT | 27 | ±10% | 1kHz,0.3V | 0.100 | 1.32 |
| MSCD105-330KT | 33 | ±10% | 1kHz,0.3V | 0.110 | 1.16 |
| MSCD105-390KT | 39 | ±10% | 1kHz,0.3V | 0.120 | 1.10 |
| MSCD105-470KT | 47 | ±10% | 1kHz,0.3V | 0.140 | 1.00 |
| MSCD105-560KT | 56 | ±10% | 1kHz,0.3V | 0.190 | 0.93 |
| MSCD105-680KT | 68 | ±10% | 1kHz,0.3V | 0.210 | 0.85 |
| MSCD105-820KT | 82 | ±10% | 1kHz,0.3V | 0.280 | 0.79 |
| MSCD105-101KT | 100 | ±10% | 1kHz,0.3V | 0.340 | 0.72 |
| MSCD105-121KT | 120 | ±10% | 1kHz,0.3V | 0.370 | 0.63 |
| MSCD105-151KT | 150 | ±10% | 1kHz,0.3V | 0.510 | 0.55 |
| MSCD105-181KT | 180 | ±10% | 1kHz,0.3V | 0.570 | 0.50 |
| MSCD105-221KT | 220 | ±10% | 1kHz,0.3V | 0.780 | 0.47 |
| MSCD105-271KT | 270 | ±10% | 1kHz,0.3V | 0.870 | 0.41 |
| MSCD105-331KT | 330 | ±10% | 1kHz,0.3V | 1.200 | 0.37 |
| MSCD105-391KT | 390 | ±10% | 1kHz,0.3V | 1.350 | 0.35 |
| MSCD105-471KT | 470 | ±10% | 1kHz,0.3V | 1.500 | 0.33 |
| MSCD105-561KT | 560 | ±10% | 1kHz,0.3V | 1.900 | 0.30 |
| MSCD105-681KT | 680 | ±10% | 1kHz,0.3V | 2.250 | 0.28 |
| MSCD105-821KT | 820 | ±10% | 1kHz,0.3V | 2.550 | 0.24 |
| MSCD105-102KT | 1000 | ±10% | 1kHz,0.3V | 2.600 | 0.30 |
| MSCD105-222KT | 2200 | ±10% | 1kHz,0.3V | 6.750 | 0.15 |

Isat: Saturation Current, the current when the inductance becomes 10% lower than its initial value.

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