

# SPECIFICATIONS

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Customer : \_\_\_\_\_

Customer P/N: \_\_\_\_\_ **MSCD Series** \_\_\_\_\_

Drawing No : \_\_\_\_\_

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

Chilisin P/N : \_\_\_\_\_ **MSCD Series/參照** \_\_\_\_\_

<b>SPECIFICATION</b>	
<b>ACCEPTED BY:</b>	
<b>COMPONENT ENGINEER</b>	
<b>ELECTRICAL ENGINEER</b>	
<b>MECHANICAL ENGINEER</b>	
<b>APPROVED</b>	
<b>REJECTED</b>	

**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

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**Version change history**

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

## 1. Features

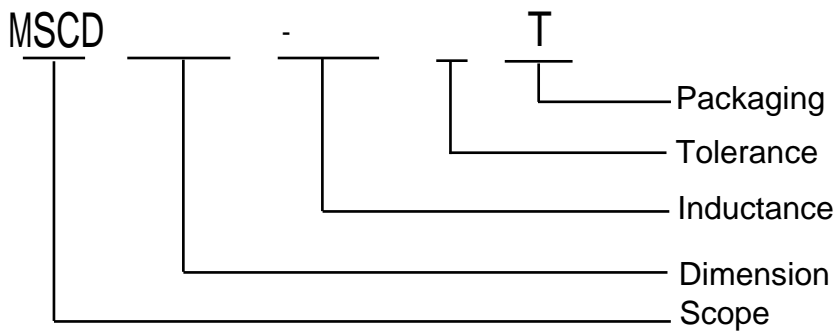
- High saturation current
- Magnetic shielded
- SMT type, suitable for reflow soldering.



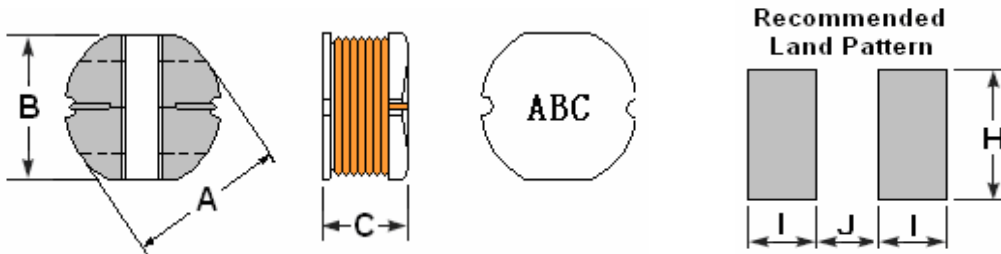
## 2. APPLICATIONS

- 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( $\mu$ H)	Tolerance	Test Freq.	DCR( $\Omega$ )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( $\mu$ H)	Tolerance	Test Freq.	DCR( $\Omega$ )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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